

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 10.11.2022

Version: 2.1

Date previous version: 16.02.2022

Previous version: 2.0

Date / First version: 02.07.2021

Product: **External DPGDA**

(ID no. 30790961/SDS\_GEN\_DE/EN)

Date of print 25.05.2024

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### External DPGDA

Chemical name: dipropylenglykoldiacrylate

CAS Number: 57472-68-1

REACH registration number: 01-2119484629-21-0004, 01-2119484629-21-0019, 01-2119484629-21-0000

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Coating raw material for industrial applications

Uses advised against: All consumer uses are strongly advised against., The hazardous properties of the substance require safety measures which can, in principle, not be sufficiently ensured in the home worker sector.

For the detailed identified uses of the product see appendix of the safety data sheet.

### 1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Global Business Unit Resins and Additives

Telephone: +49 621 60-72509

E-mail address: ed-psr@basf.com

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## 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2

H315 Causes skin irritation.

Eye Dam./Irrit. 1

H318 Causes serious eye damage.

Skin Sens. 1

H317 May cause an allergic skin reaction.

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318 Causes serious eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.

P261 Avoid breathing mist or vapour or spray.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: Oxybis(methyl-2,1-ethanediyl) diacrylate

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## 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not contain a substance above legal limits fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

acrylic ester

Regulatory relevant ingredients

Oxybis(methyl-2,1-ethanediyl) diacrylate

Content (W/W): >= 75 % - <= 100 %	Skin Corr./Irrit. 2
CAS Number: 57472-68-1	Eye Dam./Irrit. 1
EC-Number: 260-754-3	Skin Sens. 1
	H318, H315, H317

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

### 3.2. Mixtures

Not applicable

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
water jet

### **5.2. Special hazards arising from the substance or mixture**

Endangering substances: harmful vapours

Advice: Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### **5.3. Advice for fire-fighters**

Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## **SECTION 6: Accidental Release Measures**

High risk of slipping due to leakage/spillage of product.

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## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

## 6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

## 6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

## 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen.

Storage class according to TRGS 510 (originally VCI, Germany): (10) Combustible liquids

Protect from temperatures above:45 °C

### 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

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### PNEC

freshwater: 0,0034 mg/l

marine water: 0,00034 mg/l

intermittent release: 0,034 mg/l

sediment (freshwater): 0,019 mg/kg

sediment (marine water): 0,0019 mg/kg

soil: 0,002 mg/kg

STP: 100 mg/l

### DNEL

worker:

Long-term exposure- systemic effects, dermal: 1,7 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 2,35 mg/m<sup>3</sup>

## **8.2. Exposure controls**

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

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Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	clear	
Odour:	ester-like	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
glass transition temperature:	-86 °C	(OECD Guideline 102)
boiling temperature:	104,5 °C (2,05 hPa)	(measured)
decomposition point:	Cannot be distilled without decomposition at normal pressure. > 165 °C	
Flammability:	not flammable	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	137 °C	(DIN 51758, closed cup)
Auto-ignition temperature:	240 °C	(DIN 51794)
Thermal decomposition:	165 °C, > 300 - 700 kJ/kg (DSC (DIN 51007))	
pH value:	6,0	
Viscosity, kinematic:	9,41 mm <sup>2</sup> /s (20 °C)	(OECD 114)
	4,64 mm <sup>2</sup> /s (40 °C)	(OECD 114)
Viscosity, dynamic:	9,88 mPa.s (20 °C)	(calculated (from kinematic viscosity))
	4,78 mPa.s (40 °C)	(calculated (from kinematic viscosity))
Thixotropy:	not thixotropic	

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Solubility in water:		(OECD Guideline 105)
	5,2 g/l (20 °C)	
Solubility (qualitative) solvent(s):	polar solvents miscible	
Partitioning coefficient n-octanol/water (log Kow):	0,01 - 0,39	(Directive 92/69/EEC, A.8)
	(24 °C; pH value: 7)	
Vapour pressure:	0,516 Pa (30 °C)	
Relative density:	1,049 (20 °C)	
Density:	1,05 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	8,35 (20 °C)	(calculated)
	Heavier than air.	

#### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: Based on the chemical structure (other)  
there is no indication of explosive properties.

Impact sensitivity: Based on the chemical structure there is no shock-sensitivity.

#### Oxidizing properties

Fire promoting properties: Based on its structural properties (other)  
the product is not classified as oxidizing.

#### Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

not self-igniting

#### Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.  
Not tested on account of the low melting-point.

#### Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:



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Forms no flammable gases in the presence of water.

#### Corrosion to metals

No corrosive effect on metal.

#### **Other safety characteristics**

Miscibility with water:

partly miscible

pKA:

The substance does not dissociate.

Adsorption/water - soil:

KOC: 19,9; log KOC: 1 (calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass:

242,27 g/mol

Evaporation rate:

not determined

## **SECTION 10: Stability and Reactivity**

### **10.1. Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Formation of

Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

### **10.2. Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **10.3. Possibility of hazardous reactions**

The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxides and other radical components.

The product is stabilized against spontaneous polymerization prior to despatch.

### **10.4. Conditions to avoid**

Avoid extreme heat. Avoid direct sunlight. Avoid inhibitor loss. To maintain inhibitor activity, oxygen must not be eliminated from the atmosphere above the product. Avoid oxygen content above the product of less than 5 %.

### **10.5. Incompatible materials**

Substances to avoid:

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peroxides, free radical initiators, Inert gas

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Inhalation-risk test (IRT): No mortality within 7 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): 3.530 mg/kg (OECD Guideline 401)

rat (by inhalation): 7 h (IRT)

No mortality within the stated exposition time as shown in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

LD50 rabbit (dermal): > 2.000 mg/kg (OECD Guideline 402)

#### Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

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Sensitization after skin contact possible.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

#### Germ cell mutagenicity

Assessment of mutagenicity:

The data available on mutagenic action are not consistent. The substance was not mutagenic in bacteria. The substance was mutagenic in a mammalian cell culture test system. The substance was not mutagenic in studies with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Carcinogenicity

Assessment of carcinogenicity:

Study does not need to be conducted.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

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#### Aspiration hazard

not applicable

#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 2,2 - 4,6 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Aquatic invertebrates:

EC50 (48 h) 22,3 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

Aquatic plants:

EC10 (72 h) 2,2 mg/l (growth rate), *Desmodesmus subspicatus* (DIN 38412 Part 9, static)

EC50 (72 h) 16,7 mg/l (growth rate), *Scenedesmus subspicatus* (DIN 38412 Part 9, static)

Microorganisms/Effect on activated sludge:

EC20 (0,5 h) > 1.000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Nominal concentration.

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Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

Readily biodegradable (according to OECD criteria).

Elimination information:

90 - 100 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):

No data available.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

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## 12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

## 12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.8. Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## SECTION 14: Transport Information

### Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for

user

None known

RID

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UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Inland waterway transport**

ADN

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable  
Packing group: Not applicable  
Environmental hazards: Not applicable  
Special precautions for user: None known

### **Air transport**

IATA/ICAO

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable  
Transport hazard class(es): Not applicable

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Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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## **SECTION 15: Regulatory Information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no



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Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 1881

Law on the Protection of Working Youth

German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)

The specifications of the Technical Rule for Hazardous Substances (TRGS) 401 must be observed (TRGS 401: Risks resulting from skin contact - identification, assessment, measures).

Annex VIII to Regulation (EC) No 1272/2008 - Poison Center Notifications: This product is not subject to submission obligations.

A voluntary submission is not planned.

## 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

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## SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Aquatic Acute 2

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1

Skin Sens. 1

Acute Tox. 5 (oral)

Skin Corr./Irrit.

Skin corrosion/irritation

Eye Dam./Irrit.

Serious eye damage/eye irritation

Skin Sens.

Skin sensitization

H318

Causes serious eye damage.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards.

IARC = International Agency for Research on Cancer. IATA = International Air Transport Association.

IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code.

ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population.

TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The

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European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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## Annex: Exposure Scenarios

### Index

#### 1. Formulation

ERC2; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

#### 2. Industrial application of all coatings and inks in dry process

SU6a, SU7, SU12, SU15, SU18, SU24; ERC5; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

#### 3. Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

ERC6d; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

#### 4. Professional indoor printing with ink cartridges in dry process

ERC8c; PROC1, PROC3, PROC10

#### 5. Wide dispersive outdoor use of long-life articles and materials with low release, including coatings, adhesives and plastics

ERC10a; AC13

#### 6. Wide dispersive indoor use of long-life articles and materials with low release, including coatings, adhesives and plastics

ERC11a; AC13

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### 1. Short title of exposure scenario

Formulation

ERC2; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture
Operational conditions	
Annual amount used in the EU	3.500.000 kg
Minimum emission days per year	225
Emission factor air	0 %
Emission factor water	0 %
Emission factor soil	0 %

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Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,197258
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	78.859,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity	

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training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,042955
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide	

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specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	

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Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Open surface	> 3 m <sup>2</sup>
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to	

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prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0067 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002851
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is	



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in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	

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Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated

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	temperatures
	Any sized room
Flow rate	< 100 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,095 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,040426
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	60 min 5 days per week

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Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1662 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,070739
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 2. Short title of exposure scenario

Industrial application of all coatings and inks in dry process

SU6a, SU7, SU12, SU15, SU18, SU24; ERC5; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC5: Use at industrial site leading to inclusion into/onto article
<b>Operational conditions</b>	
Annual amount used in the EU	3.400.000 kg

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Minimum emission days per year	300
Emission factor air	0,9 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,61607
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	2.759,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	

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Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,042955
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures

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	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediy) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air

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	concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa



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Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Open surface	> 3 m <sup>2</sup>
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0067 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002851
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 100 l/min
<b>Risk Management Measures</b>	
Ensure medium level containment	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic

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Exposure estimate	0,095 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,040426
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Application rate	> 3 m <sup>2</sup> /h
<b>Risk Management Measures</b>	
Ensure medium level containment	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity	

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training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0096 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Application rate	> 3 m <sup>2</sup> /h
<b>Risk Management Measures</b>	
Ensure medium level containment	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual	

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phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0096 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide	

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specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1662 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,070739
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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### 3. Short title of exposure scenario

Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

ERC6d; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	300
Emission factor air	0,9 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10



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Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,203417
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	122,9 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working	

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clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,042955
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	

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Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Open surface	> 3 m <sup>2</sup>
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	

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Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0095 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004043
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	

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Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated

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	temperatures
	Any sized room
Flow rate	< 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,29 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,123404
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	< 100 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,095 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,040426
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C

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	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 90 %
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1662 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,070739
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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#### 4. Short title of exposure scenario

Professional indoor printing with ink cartridges in dry process  
ERC8c; PROC1, PROC3, PROC10

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8c: Widespread use leading to inclusion into/onto article (indoor)



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<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,19912
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Operation is carried out at ambient or elevated temperatures
<b>Risk Management Measures</b>	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,1009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,042955
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
Process temperature	25 °C
	Air concentration is limited to the saturated air concentration of the pure compound.
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Operation is carried out at ambient or elevated temperatures
	Any sized room
Flow rate	> 1000 l/min
<b>Risk Management Measures</b>	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,019 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,008085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	Oxybis(methyl-2,1-ethanediyl) diacrylate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0,085 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	> 3 m <sup>2</sup> /h
<b>Risk Management Measures</b>	
Ensure medium level containment	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
Ensure doors and windows are opened (general ventilation).	
Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m).	
Provide basic employee training to prevent/minimize exposures.	
Wear suitable working clothes.	
Use suitable eye protection.	
Ensure minimization of manual phases Wash off any skin contamination immediately. Provide specific employee training to prevent/minimize exposures.	
Wear chemically resistant gloves in combination with specific activity training Wear suitable working clothes. Wash hands before breaks and at end of work.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0096 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004085
Assessment method	Qualitative assessment
	Worker - dermal
<b>Additional good practice advice</b>	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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## 5. Short title of exposure scenario

Wide dispersive outdoor use of long-life articles and materials with low release, including coatings, adhesives and plastics

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ERC10a; AC13

### Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	ERC10a: Widespread use of articles with low release (outdoor) In accordance to the Article 14 (2a-f) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed if the substance in a preparation is less than 0.1%.
<b>Operational conditions</b>	

Contributing exposure scenario	
<b>Use descriptors covered</b>	AC13: Plastic articles In accordance to the Article 14 (2a-f) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed if the substance in a preparation is less than 0.1%.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	0,085 Pa

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### 6. Short title of exposure scenario

Wide dispersive indoor use of long-life articles and materials with low release, including coatings, adhesives and plastics

ERC11a; AC13

### Control of exposure and risk management measures

Contributing exposure scenario	
<b>Use descriptors covered</b>	ERC11a: Widespread use of articles with low release (indoor) In accordance to the Article 14 (2a-f) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed if the substance in a preparation is less than 0.1%.
<b>Operational conditions</b>	

Contributing exposure scenario	
<b>Use descriptors covered</b>	AC13: Plastic articles In accordance to the Article 14 (2a-f) of the REACH

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	Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed if the substance in a preparation is less than 0.1%.
<b><i>Operational conditions</i></b>	
Vapour pressure of the substance during use	0,085 Pa

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