

Revision date: 2018/07/17 Page: 1/14
Version: 2.0 (30052956/SDS\_GEN\_US/EN)

# 1. Identification

#### Product identifier used on the label

# Naphtha

#### Recommended use of the chemical and restriction on use

Recommended use\*: Raw material; Intermediate (isolated and transported)

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

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

### **Emergency telephone number**

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

#### 2. Hazards Identification

# According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Label elements

Pictogram:



Signal Word: Danger

Hazard Statement:

<sup>\*</sup> The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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evision date : 2018/07/17 ersion: 2.0	Page: 2/ (30052956/SDS_GEN_US/E
H224	Extremely flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H340	May cause genetic defects.
H360	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Precautionary Stateme	ents (Prevention):
P281	Use personal protective equipment as required.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P283	Wear fire resistant or flame retardant clothing.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P264	Wash with plenty of water and soap thoroughly after handling.
P221	Take any precaution to avoid mixing with combustibles
P273	Avoid release to the environment.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

No data available.

#### Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

# 3. Composition / Information on Ingredients

# According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Weight %	Chemical name
71-43-2	>= 0.3 - < 15.0%	Benzene
78-78-4	>= 0.0 - < 25.0%	isopentane
100-41-4	>= 0.0 - < 3.0%	ethylbenzene
108-87-2	>= 0.0 - < 10.0%	methylcyclohexane
108-88-3	>= 0.0 - < 7.0%	Toluene
109-66-0	>= 0.2 - < 50.0%	Pentane
110-54-3	>= 5.0 - < 50.0%	n-hexane
110-82-7	>= 0.0 - < 15.0%	cyclohexane
111-65-9	>= 0.0 - < 50.0%	octane
111-84-2	>= 0.0 - < 7.0%	Nonane
142-82-5	>= 0.2 - < 15.0%	heptane
1330-20-7	>= 0.0 - < 7.0%	Xylene
26635-64-3	>= 5.0 - < 75.0%	Isooctane

# **Naphtha**

Revision date : 2018/07/17	Page: 3/14
Version: 2.0	(30052956/SDS GEN US/EN)

64741-46-4	>= 15.0 - < 20.0%	Naphtha (petroleum), light straight-run
96-37-7	>= 1.0 - < 15.0%	Cyclopentane, methyl-
1120-21-4	>= 0.0 - < 1.0%	Undecane
31394-54-4	>= 0.3 - < 50.0%	isoheptane-

#### 4. First-Aid Measures

#### **Description of first aid measures**

#### General advice:

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

#### If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

#### If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

#### Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Hazards: When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

#### Indication of any immediate medical attention and special treatment needed

### Note to physician

Treatment: Treat acco

Treat according to symptoms (decontamination, vital functions), no known specific antidote. The presence of benzene in the body can be detected by determining the amount of this substance in the blood and/or urine.

# 5. Fire-Fighting Measures

#### **Extinguishing media**

Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam

#### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Vapours may form explosive mixture with air. Do not breathe gas/vapour. Cool endangered containers with water-spray.

Revision date: 2018/07/17 Page: 4/14 Version: 2.0 (30052956/SDS GEN US/EN)

### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

#### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

#### 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid contact with the skin, eyes and clothing.

#### **Environmental precautions**

Do not empty into drains. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

# 7. Handling and Storage

#### Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Vapours may form explosive mixture with air.

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

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Protect against heat.

### 8. Exposure Controls/Personal Protection

# Components with occupational exposure limits

Benzene	ACGIH TLV	conc. 50 ppm; TWA value 1 ppm; max. conc. 50 ppm; CLV 25 ppm; TWA value 10 ppm; TWA value 1 ppm; OSHA Action level 0.5 ppm; STEL value 5 ppm; Skin Designation; The substance can be absorbed through the skin. STEL value 2.5 ppm; TWA value 0.5 ppm;
propane	OSHA PEL	PEL 1,000 ppm 1,800 mg/m3 ; TWA value 1,000 ppm 1,800 mg/m3 ;

Revision date : 2018/07/17 Version: 2.0		Page: 5/14 (30052956/SDS GEN US/EN)
	ACGIH TLV	; D: Simple asphyxiant, EX: Explosion hazard
Propane, 2-methyl-	ACGIH TLV	STEL value 1,000 ppm ; Explosion hazard.
isopentane	ACGIH TLV	TWA value 1,000 ppm ;
ethylbenzene	OSHA PEL	PEL 100 ppm 435 mg/m3; TWA value 100 ppm 435 mg/m3; STEL value 125 ppm 545
	ACGIH TLV	mg/m3 ; TWA value 20 ppm ;
n-Butane	OSHA PEL ACGIH TLV	TWA value 800 ppm 1,900 mg/m3 ; STEL value 1,000 ppm ; Explosion hazard.
methylcyclohexane	OSHA PEL	PEL 500 ppm 2,000 mg/m3 ; TWA value 400
	ACGIH TLV	ppm 1,600 mg/m3 ; TWA value 400 ppm ;
Toluene	OSHA PEL ACGIH TLV	TWA value 100 ppm 375 mg/m3; STEL value 150 ppm 560 mg/m3; max. conc. 500 ppm; CLV 300 ppm; TWA value 200 ppm; TWA value 20 ppm;
Pentane	OSHA PEL	PEL 1,000 ppm 2,950 mg/m3; TWA value 600 ppm 1,800 mg/m3; STEL value 750 ppm 2,250 mg/m3; TWA value 1,000 ppm;
n-hexane	OSHA PEL	PEL 500 ppm 1,800 mg/m3 ; TWA value 50
	ACGIH TLV	ppm 180 mg/m3; TWA value 50 ppm; Skin Designation; The substance can be absorbed through the skin.
cyclohexane	OSHA PEL	PEL 300 ppm 1,050 mg/m3 ; TWA value 300
	ACGIH TLV	ppm 1,050 mg/m3 ; TWA value 100 ppm ;
octane	ACGIH TLV	TWA value 300 ppm;
Nonane	OSHA PEL	TWA value 200 ppm 1,050 mg/m3 ;
heptane	OSHA PEL ACGIH TLV	PEL 500 ppm 2,000 mg/m3; STEL value 500 ppm 2,000 mg/m3; TWA value 400 ppm 1,600 mg/m3; TWA value 400 ppm; STEL value 500 ppm;

Naphtha

Revision date : 2018/07/17 Version: 2.0		Page: 6/14 (30052956/SDS_GEN_US/EN)
Xylene	OSHA PEL	PEL 100 ppm 435 mg/m3; TWA value 100 ppm 435 mg/m3; STEL value 150 ppm 655 mg/m3;
	ACGIH TLV	TWA value 100 ppm; STEL value 150 ppm;
Isooctane	OSHA PEL	STEL value 375 ppm 1,800 mg/m3 ; TWA value 300 ppm 1,450 mg/m3 ;
	ACGIH TLV	TWA value 300 ppm ;
Isononane	OSHA PEL	TWA value 200 ppm 1,050 mg/m3;
isoheptane-	OSHA PEL	STEL value 500 ppm 2,000 mg/m3; TWA value 400 ppm 1,600 mg/m3;
	ACGIH TLV	STEL value 500 ppm; TWA value 400 ppm;

#### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Suitable respiratory protection for lower concentrations or short-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A) Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus.

#### Hand protection:

Chemical resistant protective gloves (EN 374), Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):, fluoroelastomer (FKM) - 0.7 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:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

# **Body protection:**

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:

Ensure adequate ventilation. Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. At the end of the shift the skin should be cleaned and skin-care agents applied.

# 9. Physical and Chemical Properties

Form: liquid
Odour: of petroleum
Odour threshold: not determined
Colour: colourless
pH value: not applicable

**Naphtha** 

Revision date : 2018/07/17	Page: 7/14
Version: 2.0	(30052956/SDS GEN US/EN)

Melting point: < -100 °C (OECD Guideline

102)

onset of boiling: 30 °C

Flash point: -30 °C (DIN 51755, closed

cup)

(calculated)

Flammability: Extremely flammable.

Lower explosion limit:0.6 %(V)(DIN 51649-1)Upper explosion limit:8.0 %(V)(DIN 51649-1)Autoignition:250 °C(DIN EN 14522)Vapour pressure:360 hPa(OECD Guideline)

(20 °C) 104)

> 110 kPa (50 °C) < 150 kPa (50 °C)

Density: 0.6942 g/cm3 (DIN 51757)

(20 °C)

Relative density: 0.6942 (OECD Guideline

(20 °C) 109)

Vapour density: not determined

Partitioning coefficient n- 5.18

octanol/water (log Pow):

Self-ignition not self-igniting

temperature:

Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: 9.38 mPa.s (OECD 114)

(20°C)

Viscosity, kinematic: approx. 1 mm2/s

(20°C)

Particle size: The substance / product is marketed

or used in a non solid or granular

form.

Solubility in water: 2 - 17 mg/l

( 20 °C)

slightly soluble

Evaporation rate: Value can be approximated from

Henry's Law Constant or vapor

pressure.

# 10. Stability and Reactivity

#### Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating (other)

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

#### Chemical stability

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

Revision date: 2018/07/17 Page: 8/14 Version: 2.0 (30052956/SDS GEN US/EN)

# Possibility of hazardous reactions

Vapours may form ignitable mixture with air.

#### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

#### Incompatible materials

oxidizing agents

## **Hazardous decomposition products**

Decomposition products:

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

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

# 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### **Acute Toxicity/Effects**

#### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Irritation / corrosion

Assessment of irritating effects: Skin contact causes irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: cyclohexane

Assessment of irritating effects: Skin contact causes irritation. EU-classification Not irritating to the eyes.

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#### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Closed-patch Test Species: guinea pig Result: Non-sensitizing.

Revision date: 2018/07/17 Page: 9/14 Version: 2.0 (30052956/SDS GEN US/EN)

Method: other

Analogous: Assessment derived from products with similar chemical character.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Aspiration Hazard

May also damage the lung at swallowing (aspiration hazard).

# **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated inhalative uptake of the substance did not cause substance-related effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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#### **Genetic toxicity**

Assessment of mutagenicity: Capable of causing genetic defects. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Benzene

Assessment of mutagenicity: Capable of causing genetic defects.

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#### Carcinogenicity

Assessment of carcinogenicity: The substance caused cancer in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Benzene

Assessment of carcinogenicity: The substance caused cancer in animal studies.

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#### Reproductive toxicity

Assessment of reproduction toxicity: Based on the ingredients, there is a suspicion of a toxic effect on reproduction.

Information on: n-hexane

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect. EU-classification Possible risk of impaired fertility.

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#### **Teratogenicity**

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Toluene

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

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#### Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Revision date: 2018/07/17 Page: 10/14 Version: 2.0 (30052956/SDS GEN US/EN)

# 12. Ecological Information

#### **Toxicity**

Aquatic toxicity
Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms.

#### Toxicity to fish

LL50 (96 h) 8.2 mg/l, Pimephales promelas (Fish test acute, semistatic)

The product is highly volatile. Tested in a closed test system. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Aquatic invertebrates

EL50 (48 h) 9.3 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The product has low solubility in the test medium. An eluate has been tested. The product is highly volatile. Tested in a closed test system.

#### Aquatic plants

EL50 (72 h) 5.72 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static) The product has low solubility in the test medium. An eluate has been tested. The product is highly volatile. Tested in a closed test system.

EL10 (72 h) 4.31 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static) The product has low solubility in the test medium. An eluate has been tested. The product is highly volatile. Tested in a closed test system.

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 2.6 mg/l, Daphnia magna (OECD Guideline 211, semistatic) The product has low solubility in the test medium. An eluate has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The product is highly volatile. Tested in a closed test system.

#### Assessment of terrestrial toxicity

No data available.

# Microorganisms/Effect on activated sludge

Toxicity to microorganisms

estimated Protozoa/EC50 (72 h): 15.41 mg/l

# Persistence and degradability

## Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria). Inherently biodegradable.

#### **Elimination information**

77 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Revision date : 2018/07/17 Page: 11/14 Version: 2.0 (30052956/SDS\_GEN\_US/EN)

#### Assessment of stability in water

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

#### Information on Stability in Water (Hydrolysis)

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

#### Bioaccumulative potential

#### Assessment bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

#### Bioaccumulation potential

No data available.

#### Mobility in soil

## Assessment transport between environmental compartments

No data available.

Adsorption to solid soil phase is possible.

# 13. Disposal considerations

#### Waste disposal of substance:

Incinerate in suitable incineration plant, observing local authority regulations.

#### Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

# 14. Transport Information

#### Land transport

**USDOT** 

Hazard class: 3 Packing group: I

ID number: UN 1268 Hazard label: 3, EHSM

Proper shipping name: PETROLEUM DISTILLATES, N.O.S.

## Sea transport

**IMDG** 

Hazard class: 3 Packing group: I

ID number: UN 1268 Hazard label: 3, EHSM Marine pollutant: YES

Proper shipping name: PETROLEUM DISTILLATES, N.O.S. (contains NAPHTHA

(PETROLEUM), FULL-RANGE STRAIGHT-RUN)

Air transport IATA/ICAO

Hazard class: 3

Revision date: 2018/07/17 Page: 12/14
Version: 2.0 (30052956/SDS\_GEN\_US/EN)

Packing group:

ID number: UN 1268

Hazard label: 3

Proper shipping name: PETROLEUM DISTILLATES, N.O.S.

# 15. Regulatory Information

# **Federal Regulations**

### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### **EPCRA 313:**

CAS Number	Chemical name
108-88-3	Toluene
110-54-3	n-hexane
110-82-7	cyclohexane
1330-20-7	Xylene
71-43-2	Benzene
100-41-4	ethylbenzene

CERCLA RQ	CAS Number	Chemical name
5000 LBS	110-54-3	n-hexane
1000 LBS	100-41-4; 110-82-	ethylbenzene; cyclohexane; Toluene
	7; 108-88-3	
100 LBS	1330-20-7; 96-37-	Xylene; Cyclopentane, methyl-; propane; isopentane;
	7; 74-98-6; 78-78-	Pentane; methylcyclohexane; Isooctane; Isononane;
	4; 109-66-0; 108-	octane; Nonane; isoheptane-; Propane, 2-methyl-; n-
	87-2; 26635-64-3;	Butane; heptane
	34464-40-9; 111-	
	65-9; 111-84-2;	
	31394-54-4; 75-	
	28-5; 106-97-8;	
	142-82-5	
10 LBS	71-43-2	Benzene

# **State regulations**

State RTK	<b>CAS Number</b>	Chemical name
PA	71-43-2	Benzene
	100-41-4	ethylbenzene
	109-66-0	Pentane
	110-54-3	n-hexane
	111-65-9	octane
	111-84-2	Nonane
	96-37-7	Cyclopentane, methyl-
	78-78-4	isopentane
	26635-64-3	Isooctane
	34464-40-9	Isononane
	110-82-7	cyclohexane
	1330-20-7	Xylene
	108-87-2	methylcyclohexane
	31394-54-4	isoheptane-

Revision date: 2018/07/17 Version: 2.0			Page: 13/14 (30052956/SDS_GEN_US/EN)
	108-88-3	Toluene	,
	106-97-8	n-Butane	
	142-82-5	heptane	
MA	71-43-2	Benzene	
	100-41-4	ethylbenzene	
	109-66-0	Pentane	
	110-54-3	n-hexane	
	111-65-9	octane	
	111-84-2	Nonane	
	96-37-7	Cyclopentane, methyl-	-
	78-78-4	isopentane	
	26635-64-3	Isooctane	
	34464-40-9	Isononane	
	110-82-7	cyclohexane	
	1330-20-7	Xylene	
	108-87-2	methylcyclohexane	
	108-88-3	Toluene	
	106-97-8	n-Butane	
	142-82-5	heptane	
NJ	71-43-2	Benzene	
	100-41-4	ethylbenzene	
	109-66-0	Pentane	
	110-54-3	n-hexane	
	111-65-9	octane	
	111-84-2	Nonane	
	96-37-7	Cyclopentane, methyl-	-
	78-78-4	isopentane	
	26635-64-3	Isooctane	
	110-82-7	cyclohexane	
	1330-20-7	Xylene	
	108-87-2	methylcyclohexane	
	34464-40-9	Isononane	
	108-88-3	Toluene	
	106-97-8	n-Butane	
	142-82-5	heptane	

#### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including BENZENE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 2018/07/17

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Revision date : 2018/07/17 Page: 14/14 Version: 2.0 (30052956/SDS\_GEN\_US/EN)

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