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# 1. Identification

# Product identifier used on the label

# Comet ND

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

Recommended use\*: crop protection product, fungicide

# 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**

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

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

# Other means of identification

Substance number: 216122

# 2. Hazards Identification

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

#### Classification of the product

Asp. Tox.

1 Aspiration hazard
Acute Tox.
2 (Inhalation - vapour)
Acute toxicity
Acute Tox.
4 (oral)
Acute toxicity
Acute Tox.
2 (Inhalation - mist)
Acute toxicity

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 2A Serious eye damage/eye irritation

Skin Sens. 1B Skin sensitization

<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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Carc. 2 Carcinogenicity
Repr. 2 (unborn child) Reproductive toxicity

STOT SE 3 (irritating to Specific target organ toxicity — single exposure

respiratory system)

STOT RE 1 (by inhalation) Specific target organ toxicity — repeated

exposure

Aquatic Acute 1 Hazardous to the aquatic environment - acute Aquatic Chronic 2 Hazardous to the aquatic environment - chronic

# Label elements

#### Pictogram:





# Signal Word: Danger

#### Hazard Statement:

H319 Causes serious eye irritation.

H315 Causes skin irritation. H330 Fatal if inhaled. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H361 Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated inhalation

exposure.

H411 Toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

#### Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing and eye protection or face

protection.

P260 Do not breathe dust/gas/mist/vapours.
P273 Avoid release to the environment.
P201 Obtain special instructions before use.

P280 Wear eye protection.

P284 In case of inadequate ventilation wear respiratory protection.
P202 Do not handle until all safety precautions have been read and

understood.

P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated body parts thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

# Precautionary Statements (Response):

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P310 Immediately call a POISON CENTER or physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P308 + P313 IF exposed or concerned: Get medical attention. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P330 Rinse mouth

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P331 Do NOT induce vomiting.

Precautionary Statements (Storage):

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

#### Hazards not otherwise classified

# Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 7 %

# 3. Composition / Information on Ingredients

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

pyraclostrobin

CAS Number: 175013-18-0 Content (W/W): 23.86 %

Synonym: Carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-

yl]oxy]methyl]phenyl]methoxy-, methyl ester

solvent naphtha

CAS Number: 64742-94-5 Content (W/W): 25.0 - 30.0%

Synonym: Solvent naphtha, petroleum, heavy arom.

Alcohols, C16-18, ethoxylated propoxylated

CAS Number: 68002-96-0 Content (W/W): 20.0 - 25.0% Synonym: No data available.

Naphthalene, 2-methyl-

CAS Number: 91-57-6 Content (W/W): 5.0 - 10.0% Synonym: No data available.

Naphthalene, 1-methyl-

CAS Number: 90-12-0 Content (W/W): 3.0 - 5.0% Synonym: No data available.

biphenyl

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> CAS Number: 92-52-4 Content (W/W): 1.0 - 3.0%

Synonym: 1,1'-Biphenyl; Diphenyl, Phenylbenzene

2-ethylhexan-1-ol

CAS Number: 104-76-7 Content (W/W): 1.0 - 3.0% Synonym: 2-Ethylhexanol

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts

CAS Number: 84989-14-0 Content (W/W): 1.0 - 3.0% Synonym: No data available.

naphthalene

CAS Number: 91-20-3 Content (W/W): 0.1 - 1.0% Synonym: Naphthalin

# 4. First-Aid Measures

# **Description of first aid measures**

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

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

#### If on skin:

Wash thoroughly with soap and water

# If in eyes:

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

# If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

# 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., (Further) symptoms and / or effects are not known so far

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

Note to physician

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

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# 5. Fire-Fighting Measures

# **Extinguishing media**

Suitable extinguishing media:

water spray, foam, dry powder, carbon dioxide

# Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Hydrogen chloride, nitrogen oxides, sulfur oxides, halogenated compounds

The substances/groups of substances mentioned can be released in case of fire.

# Advice for fire-fighters

Protective equipment for fire-fighting:

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

#### Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

#### 6. Accidental release measures

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

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

#### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations. Wear suitable protective equipment.

# 7. Handling and Storage

#### Precautions for safe handling

When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

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

# Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

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Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

# 8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

#### Components with occupational exposure limits

biphenyl ACGIH, US: TWA value 0.2 ppm;
OSHA Z1: PEL 0.2 ppm 1 mg/m3;

solvent naphtha ACGIH, US: TWA value 200 mg/m3 Non-aerosol (total

hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol

exposures.

ACGIH, US: Skin Designation Non-aerosol (total

hydrocarbon vapor); Danger of cutaneous

absorption

ACGIH, US: Skin Designation Non-aerosol (total

hydrocarbon vapor); Danger of cutaneous

absorption

ACGIH, US: TWA value 200 mg/m3 Non-aerosol (total

hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol

exposures.

Naphthalene, 1-methyl- ACGIH, US: TWA value 0.5 ppm;

ACGIH, US: Skin Designation; Danger of cutaneous

absorption

Naphthalene, 2-methyl- ACGIH, US: TWA value 0.5 ppm;

ACGIH, US: Skin Designation; The substance can be

absorbed through the skin.

ACGIH, US: Skin Designation; Danger of cutaneous

absorption

#### Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

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# Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

#### 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:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

# 9. Physical and Chemical Properties

Form: liquid

Odour: faintly aromatic

Odour threshold: Not determined since harmful by inhalation.

Colour:

Boiling range: approx. 244 - 292 °C

Information applies to the solvent.

Flash point: approx. 104 °C (ISO 2719)

Flammability: not highly flammable

Lower explosion limit: 0.6 %(V)

Information applies to the solvent.

Upper explosion limit: 7 %(V)

Information applies to the solvent.

Autoignition: 425 °C (Directive

92/69/EEC, A.15)

approx. 0.003 hPa Vapour pressure:

(20°C)

Information applies to the solvent.

Density: approx. 1.05 g/cm3

(20°C)

not applicable

Vapour density: Heavier than air., Information based

on the main component/s.

Partitioning coefficient n-

Thermal decomposition:

octanol/water (log Pow):

No decomposition if stored and handled as

prescribed/indicated.

Viscosity, dynamic: approx. 64.2 mPa.s (OECD 114)

(20°C)

(OECD 114) Viscosity, kinematic: 23.7 mm2/s

(40°C)

Solubility in water: emulsifiable Evaporation rate: not applicable

Other Information: If necessary, information on other physical and chemical

parameters is indicated in this section., The product has not

been tested. The statement has been derived from

substances/products of a similar structure or composition.

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# 10. Stability and Reactivity

# Reactivity

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

#### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

# **Chemical stability**

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

# Possibility of hazardous reactions

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

#### Conditions to avoid

See SDS section 7 - Handling and storage.

# Incompatible materials

strong bases, strong acids, strong oxidizing agents

# Hazardous decomposition products

# Decomposition products:

Hazardous 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: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Oral

Type of value: LD50 Species: rat (female) Value: 317 mg/kg

# **Inhalation**

Type of value: LC50 Species: rat (male/female)

Value: > 1.14 - < 5.3 mg/l (OECD Guideline 403)

Exposure time: 4 h An aerosol was tested.

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**Dermal** 

Type of value: LD50 Species: rat (male/female)

Value: > 4,000 mg/kg (OECD Guideline 402)

No mortality was observed.

# Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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 substances/products of a similar structure or composition.

<u>Skin</u>

Species: rabbit Result: Irritant.

Method: OECD Guideline 404

Eve

Species: rabbit Result: non-irritant

Method: OECD Guideline 405

# Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Guinea pig maximization test

Species: guinea pig Result: sensitizing

# **Chronic Toxicity/Effects**

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyraclostrobin

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Information on: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts
Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Toluene

Assessment of repeated dose toxicity: Repeated exposure to large quantities may affect certain organs. Damages the central nerve system. The substance may cause deafness after repeated inhalation.

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# Genetic toxicity

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Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

# Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: 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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# Other Information

Misuse can be harmful to health.

# 12. Ecological Information

# **Toxicity**

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

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

# Toxicity to fish

LC50 (96 h) 0.0229 mg/l, Oncorhynchus mykiss (EPA 72-1, static)

# Aquatic invertebrates

EC50 (48 h) 0.046 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

#### Aquatic plants

EC50 (72 h) 0.69 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

EC10 (72 h) 0.11 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201)

## Chronic toxicity to fish

Information on: pyraclostrobin

No observed effect concentration (98 d) approx. 0.00235 mg/l, Oncorhynchus mykiss (OECD Guideline 210, Flow through.)

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#### Chronic toxicity to aquatic invertebrates

Information on: pyraclostrobin

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No observed effect concentration (21 d) 0.004 mg/l, Daphnia magna (OECD Guideline 202, part 2, semistatic)

The details of the toxic effect relate to the nominal concentration.

No observed effect concentration (28 d) 0.00128 mg/l, Mysidopsis bahia (OPP 72-4 (EPA-Guideline), Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

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# Persistence and degradability

#### Assessment biodegradation and elimination (H2O)

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

# Assessment biodegradation and elimination (H2O)

Information on: pyraclostrobin

Not readily biodegradable (by OECD criteria).

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# **Bioaccumulative potential**

#### Assessment bioaccumulation potential

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

# Bioaccumulation potential

Information on: pyraclostrobin

Bioconcentration factor: 379 - 507, Oncorhynchus mykiss (OECD-Guideline 305)

Accumulation in organisms is not to be expected.

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# Mobility in soil

#### Assessment transport between environmental compartments

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

Information on: pyraclostrobin

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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# **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

# 13. Disposal considerations

#### Waste disposal of substance:

Must be sent to a suitable incineration plant, observing local regulations.

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## Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

# 14. Transport Information

# Land transport

**USDOT** 

Hazard class: 9
Packing group: III

ID number: UN 3082 Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

Sea transport

**IMDG** 

Hazard class: 9 Packing group: III

ID number: UN 3082 Hazard label: 9, EHSM Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III

ID number: UN 3082 Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains PYRACLOSTROBIN, SOLVENT NAPHTHA)

# **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

# 15. Regulatory Information

# **Federal Regulations**

Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

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

# **EPCRA 313:**

CAS Number	Chemical name	
92-52-4	biphenyl	
91-20-3	naphthalene	
90-12-0	Naphthalene, 1-methyl-	
91-57-6	Naphthalene, 2-methyl-	

<b>CERCLA RQ</b>	CAS Number	Chemical name
5000 LBS	85-01-8	phenanthrene
1000 LBS	108-88-3	Toluene
100 LBS	142-82-5; 91-20-3; 92-52-4; 77-78-1; 123-91-1; 64742-94-5	heptane; naphthalene; biphenyl; dimethyl sulphate; 1,4-dioxane; solvent naphtha
10 LBS	71-43-2; 75-21-8	Benzene; Ethylene Oxide

# **State regulations**

State RTK	<b>CAS Number</b>	Chemical name
NJ	92-52-4	biphenyl
	64742-94-5	solvent naphtha
	90-12-0	Naphthalene, 1-methyl-
	85-01-8	phenanthrene
	91-20-3	naphthalene
	108-88-3	Toluene
PA	92-52-4	biphenyl
	104-76-7	2-ethylhexan-1-ol
	64742-94-5	solvent naphtha
	90-12-0	Naphthalene, 1-methyl-
	91-57-6	Naphthalene, 2-methyl-

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

**WARNING:** This product can expose you to chemicals including ETHYLENE OXIDE, 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: 2022/06/01

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.

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