

VAPORPH3OS® PHOSPHINE FUMIGANT

Revision Date 01.08.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name VAPORPH3OS® PHOSPHINE FUMIGANT

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance/Mixture**

- Fumigant

1.3 Details of the supplier of the safety data sheet**Company**

CYTEC AUSTRALIA HOLDINGS PTY LTD.
Suite 1, Level 1, 21 Solent Cct.,
Baulkham Hills, 2153 Australia
Telephone: +61 2 9846 6200

E-mail address

manager.sds@solvay.com

1.4 Emergency telephone number

MULTI LINGUAL EMERGENCY NUMBER (24/7)
Europe/Latin America/Africa: +44 1235 239 670 (UK)
Middle East/Africa speaking Arabic: +44 1235 239 671 (UK)
Asia Pacific : +65 3158 1074 (Singapore)
China : 400 120 6011 (toll-free, access from China only)
North America : +1 800 424 9300

Poisons information

- "For advice, contact a Poison Information Center (e.g. phone Australia 13 1126) or a doctor (at once)"

Disclaimer

The ® indicates a Registered Trademark in the United States and the ™ indicates a trademark in the United States. The mark may also be registered, subject of an application for registration, or a trademark in other countries.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Work Health and Safety Regulation 2011**

- | | |
|----------------------------------------|-----------------------------------------------------------|
| - Pyrophoric gas | H232: May ignite spontaneously if exposed to air. |
| - Flammable gases , Category 1A | H220: Extremely flammable gas. |
| - Gases under pressure , Liquefied gas | H280: Contains gas under pressure; may explode if heated. |
| - Acute toxicity , Category 1 | H330: Fatal if inhaled. |
| - Skin corrosion , Sub-category 1B | H314: Causes severe skin burns and eye damage. |
| - Serious eye damage , Category 1 | H318: Causes serious eye damage. |

SUSMP (AU)

- Schedule 7: Dangerous Poison

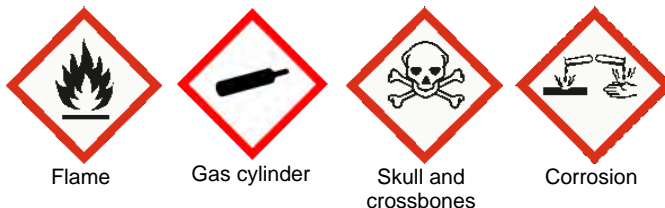
2.2 Label elements**Work Health and Safety Regulation 2011**

- CAS-No. 7803-51-2 phosphine

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Pictogram



Signal word

- Danger

Hazard statements

- H220 Extremely flammable gas.
- H232 May ignite spontaneously if exposed to air.
- H280 Contains gas under pressure; may explode if heated.
- H314 Causes severe skin burns and eye damage.
- H330 Fatal if inhaled.

Precautionary statements

Prevention

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P222 Do not allow contact with air.
- P260 Do not breathe gas.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
- P284 Wear respiratory protection.

Response

- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
- P363 Wash contaminated clothing before reuse.
- P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
- P381 In case of leakage, eliminate all ignition sources.

Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.
- No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.1 Substance

- Chemical nature Phosphorus trihydride (phosphine)

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Information on Components and Impurities

Chemical name	CAS-No.	GHS Classification	Concentration [%]
Phosphine	7803-51-2	Flammable gases, Category 1A ; H220 Gases under pressure, Compressed gas ; H280 Acute toxicity, Category 1 ; H330 Skin corrosion, Sub-category 1B ; H314 Serious eye damage, Category 1 ; H318	> 97
Non-hazardous ingredients *			Balance

* (Ingredients present at non-hazardous concentrations, according to criteria of SWAC (Australia), and the Hazardous Substances (Classification) Regulations 2001 (New Zealand), based on available information).

3.2 Mixture

- Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

- Quickly move the person away from the contaminated area. Make the affected person rest.
- Immediate medical attention is required.
- Show this sheet to the doctor.
- If person is not breathing, immediately call for emergency medical support then, begin cardiopulmonary resuscitation. For artificial respiration, use a bag-valve-mask device. If artificial respiration is not possible due to physical or psychological reasons, start only heart massage as soon as possible.
- Rescuers within the areas of potentially unsafe levels of this product "(the ""HOT ZONE"") should employ appropriate personal protective equipment" such as SCBA during the rescue of the victim.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Immediately flush skin with large amounts of water.
- Immediate medical attention is required.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Keep eye wide open while rinsing.
- Show this sheet to the doctor.
- Always obtain medical advice, even if there are no symptoms.

In case of ingestion

- Not applicable

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation**Symptoms**

- Fatigue
- discomfort in the chest

Effects

- Serious effects on health can appear after exposure.
- The effects will depend on target organs.
- In case of inhalation, irritation/corrosion of the respiratory tract.

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- Risk of respiratory disorder
- May cause irreversible skin damage.
- Chronic exposure may cause dermatitis.
- May cause irreversible eye damage.

Symptoms

- Weakness
- Vomiting
- chest pain
- Diarrhoea
- Difficulty in breathing

Symptoms

- Symptoms will depend on the target organs.
- Inhalation may provoke the following symptoms:
- Cough
- Breathing difficulties
- Irritation
- Redness
- Swelling of tissue
- May cause respiratory tract irritation.
- Dermatitis
- Causes skin burns.
- Lachrymation
- Conjunctivitis
- Causes eye burns.

Symptoms

- pulmonary oedema
- Dizziness
- Cyanosis
- Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed**Notes to physician**

- If breathed in, move person into fresh air.
- Be aware to maintain life support if necessary.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- Treat symptomatically.
- Contact a poison control center.
- Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

- Highly flammable
- Dense white fumes are given off which may obscure the area.
- On combustion forms:
- Toxic and highly flammable gases are released, which increase fire/explosion hazards.
- In the presence of water, forms acidic solutions.

5.3 Advice for firefighters

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Special protective equipment for firefighters

- Wear full protective clothing and self-contained breathing apparatus.
- Hazchem Code 2PE

Specific fire fighting methods

- Cool containers/tanks with water spray.
- Evacuate personnel to safe areas.
- Remove undamaged containers from fire area if it is safe to do so.

Further information

- Control the use of water due to environmental risk (see section 6).

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Do not breathe gas.
- Wear self-contained breathing apparatus and protective suit.
- If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade).
- Evacuate personnel to safe areas.
- Remove all sources of ignition.
- Only qualified personnel equipped with suitable protective equipment may intervene.
- Avoid contact with the skin and the eyes.
- Do NOT approach from DOWNWIND.
- Stop the leak as quickly as possible (using non-sparking tools).
- Mechanically ventilate the spillage area, whilst avoiding the formation of explosive concentrations.

6.2 Environmental precautions

- Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

- Keep container tightly closed.
- Flammable product. Take all necessary precautions. Earth the containers and the equipment.
- Ventilate the area.

6.4 Reference to other sections

- For personal protection see section 8.
- For disposal considerations see section 13.

Dangerous Goods - Emergency Response Guidebook (ERG) (AU ERG2018)

Guide : 119

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Wear protective gloves/ protective clothing/ eye protection/ face protection.
- Wash hands after handling.
- Do not breathe gas.
- The gas deadens the sense of smell. Do not depend on odor to detect presence of gas.
- Keep cylinder out of sun and away from heat.
- Keep cylinder in an upright position and protect from falling.
- Before dispensing product, purge equipment with an inert gas.
- Cylinders must be handled in accordance with industry standards for compressed gases.
- Metals such as brass, copper and other copper alloys and precious metals are susceptible to corrosion.

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Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

- Keep in properly labelled containers.
- Keep away from incompatible materials to be indicated by the manufacturer
- Keep away from heat and sources of ignition.

Requirements for storage rooms and vessels**Recommended storage temperature:** < 50 °C

- The building should be adequately ventilated and equipped with a continuous monitoring and alarm system.
- Keep in a dry, cool and well-ventilated place.
- Store in a fireproof area.
- Indoor storage in a separate building with no other occupancy is suitable.
- The indoor storage of toxic gases is prohibited in some jurisdictions.
- Store in upright position only.
- It is recommended that both full and used cylinders be stored outdoors in a dedicated and properly designed and labeled storage area, away from other building ventilation intakes.
- The storage of these gases in occupied spaces is not recommended.
- This area should be secured, locked and have a well-drained, firm and level surface, preferably reinforced concrete.
- To guarantee safety keep according to Storage temperature and conditions.

Australian AS 1940 Storage Classification

- (Not applicable)

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Components with national occupational exposure limits**

Components	Value type	Value	Basis
Phosphine	TWA	0.3 ppm 0.42 mg/m3	Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment
Phosphine	STEL	1 ppm 1.4 mg/m3	Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

Components with other occupational exposure limits

Components	Value type	Value	Basis
Phosphine	TWA	0.05 ppm	USA. ACGIH Threshold Limit Values (TLV)

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Phosphine	C	0.15 ppm	USA. ACGIH Threshold Limit Values (TLV)

8.2 Exposure controls

Control measures**Engineering measures**

- Ensure adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.
- Use a closed system process where feasible.
-

Individual protection measures**Respiratory protection**

- Self-contained breathing apparatus in confined spaces/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.
- Use only respiratory protection that conforms to international/ national standards.
- Wear a positive-pressure supplied-air respirator.
- Components with workplace control parameters

Hand protection

- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

Eye protection

- Chemical resistant goggles must be worn.
- Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

- Full protective suit
- Change working clothes after each workshift.
- Contaminated work clothing should not be allowed out of the workplace.
- Gas is not known to be absorbed through skin.
- Steel toed safety shoes are recommended for anyone handling compressed gas cylinders.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state	gaseous
Form	Liquefied gas
Colour	colourless
Odour	garlic
Odour Threshold	No data available

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<u>Melting point/freezing point</u>	sublimes
<u>Initial boiling point and boiling range</u>	sublimes
<u>Flammability (solid, gas)</u>	Pyrophoric
<u>Flammability (liquids)</u>	Not applicable
<u>Flammability/Explosive limit</u>	<u>Lower flammability/explosion limit:</u> 1.80 %(V) <u>Upper flammability/explosion limit:</u> 98.00 %(V)
<u>Flash point</u>	Pyrophoric
<u>Auto-ignition temperature</u>	<u>Ignition temperature:</u> 38 °C
<u>Decomposition temperature</u>	No data available
<u>pH</u>	Not applicable
<u>Viscosity</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> 364 mg/l (20 °C)
<u>Partition coefficient: n-octanol/water</u>	Not applicable
<u>Vapour pressure</u>	Not applicable
<u>Density</u>	1.17 g/cm ³ (20 °C)
<u>Relative density</u>	1.17 (20 °C)
<u>Relative vapor density</u>	1.146 (20 °C) (Air = 1.0)
<u>Particle characteristics</u>	No data available
<u>Evaporation rate (Butylacetate = 1)</u>	Not applicable

9.2 Other information

<u>Explosiveness</u>	Not explosive, In use, may form flammable/explosive vapour-air mixture.
<u>Oxidizing properties</u>	Not considered as oxidizing
<u>Self-ignition</u>	The substance or mixture is pyrophoric
<u>Peroxides</u>	The substance or mixture is not classified as organic peroxide.
<u>Corrosion of Metals</u>	Corrosive to copper and copper alloys.
<u>Surface tension</u>	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

- No data available

10.2 Chemical stability

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- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No data available

10.4 Conditions to avoid

- Keep away from direct sunlight.
- Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

- Exposure to air.
- Oxidizing agents
- dimethyl sulfoxide.
- copper
- Brass
- Copper alloys
- Noble metals

10.6 Hazardous decomposition products**Hazardous decomposition products**

- Oxides of phosphorus

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

No data available

Acute inhalation toxicity

phosphine

LC50 - 4 h (gas) : ca. 0.08 mg/l - Rat , male and female
This product is classified as acute toxicity, category 1
Unpublished reports

Acute dermal toxicity

No data available

Acute toxicity (other routes of administration)

No data available

Skin corrosion/irritation

phosphine

Causes burns.

Serious eye damage/eye irritation

phosphine

Corrosive

Respiratory or skin sensitisation

No data available

Mutagenicity**Genotoxicity in vitro**

phosphine

Ames test
Strain: Salmonella typhimurium
with and without metabolic activation

negative
Method: OECD Test Guideline 471
Unpublished reports

Genotoxicity in vivo

phosphine

Chromosome aberration test in vivo - Mouse
male
Inhalation

negative
Published data

Carcinogenicity

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phosphine

Rat , male and female
 Inhalation
 NOAEC: 0.004mg/l
 Method: OECD Test Guideline 453
 Highest dose tested
 Animal testing did not show any carcinogenic effects.
 Published data

Toxicity for reproduction and development

Toxicity to reproduction/Fertility
Developmental Toxicity/Teratogenicity
 phosphine

No data available
 Rat, female, Inhalation
 General Toxicity Maternal NOAEL: > 0.007 mg/l
 Developmental Toxicity NOAEL: > 0.007 mg/l
 Method: OECD Test Guideline 414
 Highest dose tested, No toxicity to reproduction, Published data

STOT

STOT - single exposure
STOT - repeated exposure
 phosphine

No data available
 Exposure routes: Inhalation
 The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

phosphine

Inhalation (gas) two-year - Rat
 NOAEC: 0.0042 mg/l
 Method: OECD Test Guideline 453
 no observed effect
 Published data
 No data available

Experience with human exposure**CMR effects****Carcinogenicity**

phosphine

Not classified as a carcinogen according to GHS criteria

Mutagenicity

phosphine

Not classified as mutagen according to GHS criteria.

Teratogenicity

phosphine

Not classified as toxic for the reproduction (development) according to GHS criteria

Reproductive toxicity

phosphine

Not classified as toxic for the reproduction (fertility and/or development) according to GHS criteria

Aspiration toxicity

No data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

phosphine

By analogy

LC50 - 96 h : - Oncorhynchus mykiss (rainbow trout)
 static test

Very toxic to fish.
 Freshwater species

**Acute toxicity to daphnia and other
 aquatic invertebrates**

No data available

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Toxicity to aquatic plants No data available
Toxicity to microorganisms No data available

Chronic toxicity to fish No data available

Chronic toxicity to daphnia and other aquatic invertebrates No data available

M-Factor

phosphine

Acute aquatic toxicity = 100
 (according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability**Abiotic degradation**

No data available

Physical- and photo-chemical elimination

No data available

Biodegradation

Biodegradability
 phosphine

Not applicable (inorganic substance)

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water
 phosphine

Not applicable (inorganic substance)

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil**Adsorption potential (Koc)**

No data available

Known distribution to environmental compartments

No data available

12.5 Results of PBT and vPvB assessment

phosphine

Not applicable (inorganic substance)

12.6 Other adverse effects**Ecotoxicity assessment**

Short-term (acute) aquatic hazard
 phosphine

Very toxic to aquatic life.

Long-term (chronic) aquatic hazard
 phosphine

Not classified due to lack of data.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

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SECTION 14: Transport information**Road and Rail transport – ADG (Australia)**

14.1 UN number	UN 2199
14.2 Proper shipping name	PHOSPHINE
14.3 Transport hazard class	2.3
Subsidiary hazard class	2.1
Label(s)	2.3 (2.1)
14.4 Packing group	
Packing group	
Hazchem Code	2PE
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
For personal protection see section 8.	

IMDG

14.1 UN number	UN 2199
14.2 Proper shipping name	PHOSPHINE
IMDG Code segregation group	Not Relevant
14.3 Transport hazard class	2.3
Subsidiary hazard class	2.1
Label(s)	2.3 (2.1)
14.4 Packing group	
Packing group	
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
EmS	F-D , S-U

For personal protection see section 8.

14.7 Transport in bulk vessels according to IMO instruments

No data available

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IATA

14.1 UN number	UN 2199
14.2 Proper shipping name	Not permitted for transport
14.3 Transport hazard class	Not permitted for transport
14.4 Packing group	
14.5 Environmental hazards	YES
Marine pollutant	
14.6 Special precautions for user	
Packing instruction (cargo aircraft)	Not permitted for transport
Packing instruction (passenger aircraft)	Not permitted for transport

For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Poison Schedule (SUSMP Australia)**

- Schedule 7: Dangerous Poison

Notification status

Inventory Information	Status
United States TSCA Inventory	<ul style="list-style-type: none"> - All substances listed as active on the TSCA inventory - This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	<ul style="list-style-type: none"> - All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	<ul style="list-style-type: none"> - When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration

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	provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Solvay legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.

SECTION 16: Other information**Full text of H-Statements**

- H220: Extremely flammable gas.
- H232: May ignite spontaneously if exposed to air.
- H280: Contains gas under pressure; may explode if heated.
- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H330: Fatal if inhaled.
- H400: Very toxic to aquatic life.

Key or legend to abbreviations and acronyms used in the safety data sheet

- C: Ceiling limit
- STEL: Exposure standard - short term exposure limit
- TWA: Exposure standard - time weighted average
- ca.: approximately
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

Further information

- Distribute new edition to clients
- Update

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- See section 14
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.