

**SECTION 1: Identification****1.1. Identification**

Product form	: Substance
Trade name	: U-Phos Phosphine Fumigant
Chemical name	: Phosphine
CAS-No.	: 7803-51-2
Product code	: U.S. EPA Registration No. 40285-22
Formula	: PH3

**1.2. Recommended use and restrictions on use**

Recommended use	: Used for fumigation to control pests of raw agricultural commodities, processed foods, stored tobacco, animal feeds and non-food products.
Restrictions on use	: Restricted Use Pesticide. For retail sale to dealers and certified applicator's only.

**1.3. Supplier**

Degesch America Inc.  
153 Triangle Drive  
Weyers Cave, Virginia 24486  
T 540-234-9281  
[dryman@degeschamerica.com](mailto:dryman@degeschamerica.com)

**1.4. Emergency telephone number**

Emergency number	: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA) CCN 6415
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**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Flammable gases Category 1	Extremely flammable gas
Pyrophoric Gas	Catches fire spontaneously if exposed to air
Gases under pressure Liquefied gas	Contains gas under pressure; may explode if heated
Acute toxicity (inhalation:gas) Category 1	Fatal if inhaled
Skin corrosion/irritation Category 1B	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	Causes serious eye damage
Full text of H statements : see section 16	

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: Extremely flammable gas  
Catches fire spontaneously if exposed to air  
Contains gas under pressure; may explode if heated

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Precautionary statements (GHS US)	<p>Causes severe skin burns and eye damage Fatal if inhaled</p> <p>: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. IF exposed: Immediately call a POISON CENTER or doctor If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</p>
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### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	GHS US classification
U-Phos Phosphine Fumigant (Main constituent)	CAS-No.: 7803-51-2	99 – 99.7	Flam. Gas 1, H220 Pyr. Gas, H250 Press. Gas (Liq.), H280 Acute Tox. 1 (Inhalation:gas), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	<p>: Call a physician immediately. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.</p>
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First-aid measures after inhalation	: Call a physician immediately. Remove victim to uncontaminated area wearing self contained breathing apparatus. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth.
First-aid measures after skin contact	: Thaw frosted parts with lukewarm water. Do not rub affected area. Remove/Take off immediately all contaminated clothing. Rinse the affected skin areas for at least 10 to 20 minutes under running water. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Following contact with the liquefied or expanded gas, rinse the eyes only shortly under running water. Do not part lids, leave contact lenses in their place. Immediately transport the casualty to an eye doctor / hospital. Continue rinsing during the transport with isotonic saline solution, alternatively with water.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Fatal if inhaled. Corrosive to the respiratory tract.
Symptoms/effects after skin contact	: Highly corrosive to skin. Contact with the liquefied gas may cause frostbite.
Symptoms/effects after eye contact	: Serious damage to eyes. Contact with liquid may cause cold burns/frostbite.
Most Important Symptoms/Effects	: Fatal if inhaled. Corrosive effects. Risk of irreversible damage to affected area.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Dry powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Toxic, extremely flammable, corrosive liquefied gas. Catches fire spontaneously if exposed to air. If venting or leaking gas catches fire, do not extinguish flames. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point.
Explosion hazard	: Extremely flammable chemical under pressure: May explode if heated. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion. Vapors or gases may ignite at distant ignition sources and flash back. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Phosphorus oxides. Hydrogen.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Fight fire from safe distance and protected location. Eliminate all ignition sources if safe to do so. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. Use extinguishing media appropriate for surrounding fire. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing. Thermally insulated undergarments and thick textile or leather gloves should be worn.

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### SECTION 6: Accidental release measures

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

General measures : Avoid all personal contact including breathing in the gas. Do not take actions involving personal risks. Before entering an area, especially a confined area, check the atmosphere with an appropriate device. In a fire or if heated, a pressure increase will occur, and the container may burst, with the risk of a subsequent explosion.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear self-contained breathing apparatus and protective suit (see section 8).  
Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. No open flames, no sparks, and no smoking. Do not breathe gas. Avoid contact with skin and eyes. Prevent other non-emergency personnel from entering the danger area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate personnel to a safe area. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ventilate spillage area. Remove all sources of ignition. Stop leak if safe to do so. Use grounded electrical/mechanical equipment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

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

For containment : Stop leak, if possible without risk. If the leak cannot be stopped, allow the gas to release in place or remove to a safe, well-ventilated area and allow the release.  
Methods for cleaning up : Use grounded electrical/mechanical equipment. Use non-sparking tools. Ventilate spillage area. Do not touch or walk on the spilled product.  
Other information : Dispose of materials or solid residues at an authorized site. Damaged cylinders should be handled by specialists only.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Do not breathe gas. Do not get in eyes, on skin, or on clothing. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Use explosion-proof equipment. Use only non-sparking tools. Pressurized container: Do not pierce or burn, even after use.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

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

Technical measures	: Stable in sealed cylinders stored under a dry inert atmosphere. Comply with applicable regulations. Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture. Protect from sunlight. Store in a well-ventilated place. Always keep container in upright position. Store full and empty containers separately. Protect cylinders from physical damage; do not drag, roll, slide or drop. Keep container closed when not in use.
Incompatible materials	: On exposure to air. Strong oxidizing agents. Precious metals and their salts. Copper. Copper alloys. Halogens. Strong acids.
Storage temperature	: < 50 °C / 122 °F

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### U-Phos Phosphine Fumigant (7803-51-2)

##### USA - ACGIH - Occupational Exposure Limits

Local name	Phosphine
ACGIH OEL TWA	0.05 ppm
ACGIH OEL C	0.15 ppm
Remark (ACGIH)	TLV® Basis: Resp tract irr; pulm edema. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

##### USA - OSHA - Occupational Exposure Limits

Local name	Phosphine
OSHA PEL TWA	0.4 mg/m <sup>3</sup>
	0.3 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

##### USA - NIOSH - Occupational Exposure Limits

NIOSH REL STEL	1 mg/m <sup>3</sup> 15 minutes
	1 ppm 15 minutes

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits. Alarm detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

#### Hand protection:

Leather protective gloves

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### Eye protection:

Safety glasses must be worn. Chemical goggles or face shield are suitable substitutes

### Skin and body protection:

Wear suitable loose fitting protective clothing. Jewelry should not be worn

### Respiratory protection:

NIOSH approved self-contained breathing apparatus (SCBA) with full facepiece and operated in pressure-demand mode must be worn when concentrations are unknown. A NIOSH approved, full-face gas mask phosphine canister may be used at levels up to 15 ppm. Respiratory protection (SCBA) must be worn if the concentration of phosphine is unknown or known to exceed the STELs for phosphine (1 ppm for 15 minutes)

### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

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

Physical state	: Gas.
Appearance	: (Liquefied) Gas.
Color	: Colorless
Odor	: Garlic odor
Odor threshold	: 0.03 ppm
pH	: No data available
Melting point	: -133 °C / -207.4 °F
Freezing point	: No data available
Boiling point	: -87.7 °C / -125.86 °F
Flash point	: Pyrophoric
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Pyrophoric Extremely flammable gas.
Vapor pressure	: 760 mm Hg (-87.5 °C/ -125.5 °F)
Relative vapor density at 20°C	: 1.17
Relative density	: 1.17
Molecular mass	: 34 g/mol Source: HSDB
Solubility	: Water: 364 mg/l.
Partition coefficient n-octanol/water (Log Pow)	: -0.27
Auto-ignition temperature	: 38 °C / 100.4 °F
Decomposition temperature	: > 375 °C / 707 °F
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosion limit: 1.8 vol % Upper explosion limit: 98 %
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Extremely flammable gas. Pyrophoric.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

May ignite spontaneously if exposed to air.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Do not allow contact with air. Incompatible materials. Do not allow gas to accumulate in low or confined areas.

#### 10.5. Incompatible materials

Air. Precious metals and their salts. Copper alloys. Copper. Halogens. Acids. Oxidizing agents.

#### 10.6. Hazardous decomposition products

Phosphorus oxides. Hydrogen.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Inhalation:gas: Fatal if inhaled.

#### U-Phos Phosphine Fumigant (7803-51-2)

LC50 Inhalation - Rat [ppm]	10.8 ppm
ATE US (gases)	10.8 ppmV/4h

Skin corrosion/irritation : Causes severe skin burns.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not applicable  
Viscosity, kinematic : No data available  
Symptoms/effects after inhalation : Fatal if inhaled. Corrosive to the respiratory tract.  
Symptoms/effects after skin contact : Highly corrosive to skin. Contact with the liquefied gas may cause frostbite.  
Symptoms/effects after eye contact : Serious damage to eyes. Contact with liquid may cause cold burns/frostbite.  
Most Important Symptoms/Effects : Fatal if inhaled. Corrosive effects. Risk of irreversible damage to affected area.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life.

#### U-Phos Phosphine Fumigant (7803-51-2)

LC50 - Fish [1]	0.00468 mg/l
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#### 12.2. Persistence and degradability

#### U-Phos Phosphine Fumigant (7803-51-2)

Persistence and degradability	Readily biodegradable.
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#### 12.3. Bioaccumulative potential

#### U-Phos Phosphine Fumigant (7803-51-2)

Partition coefficient n-octanol/water (Log Pow)	-0.27
Bioaccumulative potential	Bioaccumulation unlikely.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions. Do not puncture or incinerate, even when empty.
Ecological information	: Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT / IMDG / IATA




DOT	IMDG	IATA
<b>14.1. UN number</b>		
2199	2199	2199
<b>14.2. Proper Shipping Name</b>		
Phosphine	PHOSPHINE	Phosphine
<b>14.3. Transport hazard class(es)</b>		
2.3 (2.1)	2.3 (2.1)	2.3 (2.1)



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DOT	IMDG	IATA
		
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		

### 14.6. Special precautions for user

#### DOT

UN-No.(DOT)	: UN2199
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 192
DOT Packaging Bulk (49 CFR 173.xxx)	: 245
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: Forbidden
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"

#### IMDG

Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P200
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Flammable, toxic, colourless gas with a garlic odour. Ignites spontaneously in air. Heavier than air (1.2). Irritating to skin, eyes and mucous membranes.

#### IATA

PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: Forbidden
CAO max net quantity (IATA)	: Forbidden
ERG code (IATA)	: 10P

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### U-Phos Phosphine Fumigant (7803-51-2)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

U-Phos Phosphine Fumigant	CAS-No. 7803-51-2	100%
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#### 15.2. International regulations

##### CANADA

##### U-Phos Phosphine Fumigant (7803-51-2)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

##### U-Phos Phosphine Fumigant (7803-51-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

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Full text of H-phrases	
H220	Extremely flammable gas
H250	Catches fire 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

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Full text of H-phrases	
H330	Fatal if inhaled

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified

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Abbreviations and acronyms	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.