

PYROCLOUD FIRE SUPPRESSION AEROSOL FROM FIRECHIEF

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Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Pyrocloud Fire Suppression Aerosol Compound

1.2 Product use:

Can be used for operational application during localization and extinguishing fire of class A, B and C, localization of fire of class A in closed spaces up, and electrical fires (voltage < 40 kV) eg. blind floor/ceilings, cable ducts and other small volume applications.

1.3 Details of the supplier of the safety data sheet

Company name: Firechief Global
3 Lands End Way
OAKHAM Rutland
LE15 6RB

Emails address: sales@firechiefglobal.com

1.4 Emergency telephone number

Emergency tel: +44 (0)330 999 0019 (office hours 08:00 - 17:00)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) no 1272/2008

Skin Sens. 1 H317

Eye Irrit. 2 H319

2.2 Label elements

Hazard pictograms:

Signal word: Warning.

Hazard statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautions:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves/eye protection.

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

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

Hazard-determining

components for labelling: Formaldehyde, oligomeric reaction products with phenol.

2.3 Other hazards

Void.

Results of PBT and vPvB assessment

PBT: No.

vPvB: No.



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Section 3. Composition/information on ingredients

3.1 Substances Not applicable.

3.2 Mixtures

Chemical characterization: Preparation comprising the following component(s).**Hazardous ingredients (or substances with exposure limits)****Potassium nitrate**

CAS#: 7757-79-1
EC#: 231-818-8
REACH reg.#: 01-2119488224-35
Content (W/W): > 50 %
Danger, 1272/2008/EC: -
Note:

Prills or granules (not classified in this form according to the ECHA REACH registration dossier, see section 16).

Cyanoguanidine

CAS#: 461-58-5
EC#: 207-312-8
REACH reg.#: 01-2119474914-28
Content (W/W): 10 - 30 %
Danger, 1272/2008/EC: -

Formaldehyde, oligomeric reaction products with phenol

CAS#: 9003-35-4
EC#: (500-005-2)
REACH reg.#: 01-2120735197-51
Content (W/W): 5 - 15 %
Danger, 1272/2008/EC: Eye Irrit. 2; H319 - Skin Sens. 1; H317 - Aquatic Chronic 3; H412

Full text of H- and EUH-phrase(s): see section 16.

Section 4. First Aid Measures

4.1 Description of first aid measures

General information: Remove victim from danger zone and place in lying position.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Remove immediately all contaminated clothing.
Substance is harmful to tissue after continuous contact. Rinsing immediately following exposure can limit injury.

Inhalation: Remove to fresh air.
If the victim is not breathing, apply artificial respiration.

Skin contact: Wash immediately with plenty of water and soap.

Eye contact: Remove contact lenses, if present, and immediately rinse eyes while holding eyelids open for a sufficient period of time (at least 15 minutes) with lukewarm water.
Help the victim with the rinsing process.
Then immediately consult a physician/ophthalmologist.

Ingestion: Rinse mouth immediately with water (if conscious). Do not induce vomiting. If the person feels unwell consult a physician or take victim to hospital (show packaging, label or SDS to physician). If the person needs to vomit, keep their head low to prevent vomit from entering the lungs. Place unconscious person on the side in the recovery position. Loosen tight clothing such as a shirt collar, tie, belt or waistband.
Rest.



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4.2 Most important symptoms and effects, both acute and delayed

- After inhalation:** Exposure to vapour concentrations of component dusts higher than the MAC value can be harmful to the health. Potential health effects include: slight irritation of the airways, sore throat and coughing.
The product may cause effects on the blood, resulting in formation of methaemoglobin when ingested. The effects may be delayed.
Smoke and gases released during intended use is harmful upon inhalation.
- After skin contact:** Slightly irritating to the skin. Redness.
Contact with the preparation may result in contact eczema, sensitisation, skin cracking and swelling.
Prolonged or repeated exposure may damage the skin and may cause irritation eczema.
- After eye contact:** May cause irreversible damage to the eyes. Redness. Pain.
Particle matter may cause physical injury to the eye.
- After ingestion:** Nausea, abdominal pain, blue skin.
Product can act on the thyroid gland.
Exposure can lead to blood disorders (mild methemoglobinemia). Methemoglobinemia is characterized by dizziness, drowsiness, headache, shortness of breath, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), rapid heart rate and chocolate-brown coloured blood.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and supportive therapy as prescribed.
Special first-aid is required in the event of exposure to potassium nitrate. Admission to hospital is required for this. For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methaemoglobin concentration in the blood. Cleansing of the entire contaminated area of the body is of utmost importance.

Section 5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media:
NONE – THIS IS AN EXTINGUISHING AGENT.
Unsuitable extinguishing media for safety reasons:
None.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire, poisonous gases may be produced.
May be released in event of fire:
Nitrogen oxides (NO_x).
Ammonia.
Above 900 °C.
Carbon oxides.
Potassium peroxide.
Hydrogen cyanide.

5.3 Advice for firefighters

Special protective clothing: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Special precautions: Wear self-contained breathing apparatus.

Other information: No specific requirements.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of heat and ignition.

Prevent dust formation.

People dealing with major spillages should wear personal protective clothing (suitable gloves and filter mask FFP-P2 if dust is formed).

6.2 Environmental precautions

Do not allow large quantities of product to reach sewage/surface water/groundwater in concentrated form.

Notify competent authorities in case of release of large quantities into the environment.

6.3 Methods and material for containment and cleaning up

Improper discharge could result in the deposit of small, localized areas of highly concentrated agglomerated particulate on that surface.

If left untended, an agglomerated mass may take on moisture and may cause non-progressive surface discoloration of unprotected metal surfaces. Any agglomerated particulate must be cleaned up with a water/alcohol solution no later than 12 hours following a discharge.

Collect spilled material by hand, e.g. with a dustpan and duster or a vacuum cleaner.

Use of a blower for cleaning is not permitted.

Collect the waste product in suitable drums for disposal.

Wash the spillage area clean with plenty of water.

6.4 Reference to other sections

Information regarding safe handling - see section 7.

Information regarding personal protective equipment - see section 8.

Information regarding disposal - see section 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Handling: When handling observe the usual precautionary measures for chemicals.

Prevent dust formation and inhalation of dust.

If intense aerosol is released from a dry sprinkler powder system, respiratory protection is required.

Wear suitable protective clothing.

Eye-wash fountain, particularly with the danger of dust formation.

Avoid contact with eyes and prolonged skin contact.

Do not smoke, eat or drink during use of the unpacked product.

Information about fire - and explosion protection:

Avoid contact with heat, sparks, flames and other ignition sources - do not smoke.

Do not use equipment producing an open flame or electrical equipment which may cause sparks.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in accordance with local regulations.

Keep away from heat sources.

Store the product dry.

Requirements to be met by storerooms and receptacles:

Store in original packaging at room temperature.

Suitable packaging material: Original packaging.

Suitable material for tanks and pipelines: Not applicable.

Information about storage in one common storage facility:

Product is hygroscopic; prevent contact with other liquids.

Further information about storage conditions:

Keep tanks / packing hermetically closed.

Prevent product temperatures above 75 °C and below -50 °C.

7.3 Specific end use

Extinguishing material in case of a fire.

Only use in combination with the ignition device supplied.



Section 8. Exposure controls/personal protection

8.1 Control parameters

Dangerous ingredients with DN(M)EL - reference Dutch SER database ("grenswaarden")				
Product information: CAS# 7757-79-1 Potassium nitrate	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Short-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	36.7	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Consumer Local
DN(M)EL	Short-term inhalation	-	mg/m ³	Consumer Local
DN(M)EL	Short-term inhalation	-	mg/m ³	Consumer Systemic
DN(M)EL	Short-term oral	-	mg/kg bw/day	Consumer Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Consumer Systemic
DN(M)EL	Long-term inhalation	-	mg/m ³	Consumer Systemic
DN(M)EL	Long-term oral	-	mg/kg bw/day	Consumer Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Consumer Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Consumer Local

Dangerous ingredients with DN(M)EL - reference ECHA registration database				
Product information: CAS# 461-58-5 Cyanoguanidine	Exposure	Value	Unit	Population / Effects
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Workers Systemic
DN(M)EL	Short-term inhalation	76.5	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	30.1	mg/kg bw/day	Workers Systemic
DN(M)EL	Long-term inhalation	15.3	mg/m ³	Workers Systemic
DN(M)EL	Long-term dermal	-	mg/kg bw/day	Workers Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Workers Local
DN(M)EL	Short-term dermal	-	mg/kg bw/day	Consumer Local
DN(M)EL	Short-term inhalation	-	mg/m ³	Consumer Local
DN(M)EL	Short-term inhalation	56	mg/m ³	Consumer Systemic
DN(M)EL	Short-term oral	-	mg/kg bw/day	Consumer Systemic
DN(M)EL	Long-term dermal	6.5	mg/kg bw/day	Consumer Systemic
DN(M)EL	Long-term inhalation	11.2	mg/m ³	Consumer Systemic
DN(M)EL	Long-term oral	6.5	mg/kg bw/day	Consumer Systemic

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DN(M)EL	Long-term dermal	-	mg/kg bw/day	Consumer Local
DN(M)EL	Long-term inhalation	-	mg/m ³	Consumer Local

Dangerous ingredients with PNEC - reference ECHA registration database			
Product information: CAS# 7757-79-1 Potassium nitrate	Exposure	Unit	Compartment
PNEC	-	mg/l	Fresh water
PNEC	-	mg/l	Intermittent releases
PNEC	-	mg/l	Marine water
PNEC	18	mg/l	STP (sewage treatment plant)
PNEC	-	mg/kg dwt	Sediment fresh water
PNEC	-	mg/kg dwt	Sediment marine water
PNEC	-	-	Air
PNEC	-	mg/kg dwt	Soil
PNEC	No potential for bioaccumulation	mg/l	Oral (foodstuffs)

Dangerous ingredients with PNEC - reference ECHA registration database			
Product information: CAS# 461-58-5 Cyanoguanidine	Exposure	Unit	Compartment
PNEC	2.5	mg/l	Fresh water
PNEC	10	mg/l	Intermittent releases
PNEC	0.25	mg/l	Marine water
PNEC	34	mg/l	STP (sewage treatment plant)
PNEC	5.83	mg/kg dwt	Sediment fresh water
PNEC	0.58	mg/kg dwt	Sediment marine water
PNEC	No hazard identified	-	Air
PNEC	3.16	mg/kg dwt	Soil
PNEC	No potential for bioaccumulation	mg/l	Oral (foodstuffs)

8.2 Exposure controls

Personal protective equipment:

After activating the PyroCloud unit, a dense aerosol or dust is formed.

Remove all contaminated clothing.

Avoid contact with eyes and prolonged skin contact.

Wash hands thoroughly after handling.

General protective and hygienic measures:

Keep away from foodstuffs and beverages.

Do not eat, drink when using this product.

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Required at inadequately ventilated workplaces or in case of dust formation.

In case of handling the unpacked product (the chemicals) use respiratory protection (FFP-P2 mask EN149).



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Hand protection:

Safety gloves.

The glove material (EN374) has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation (e.g. for penetration time > 480 minutes, level 6, e.g. nitrile rubber (0.4 mm)).

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time can be obtained from the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tight fitting acid resistant safety glasses (EN 166). Full face mask with safety glasses if dust formation may occur.

**Body protection:**

Wear appropriate chemical protective clothing (preferably thick cotton or in case of dust risk EN ISO 13982-1 [type 5]).

Wash contaminated clothing before using it again.

**Measuring procedures:**

In order to establish compliance with an exposure limit and to establish that exposure is properly controlled, it may be necessary to determine the concentration of the substances in the inhalation zone or in the general workspace.

Environmental exposure controls:

Unintended leakage of the material must be stopped.

Section 9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****General information****Appearance:**

Form: Solid (pressed compound in rigid steel casing).

Colour: Beige / light red.

Odour: None specific.

Odour threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: Not determined.

Flash Point: Not determined.

Flammability (solid, gas): Not determined.

Auto-ignition temperature: Not determined.

Explosion hazard: Not determined.

Oxidising properties: Not determined.

Explosive limits

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not determined.

Relative density: 1.9 (water = 1).



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Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in/miscibility with water:	Slight (< 1 %).
Partition coefficient (n-octanol/water):	Not determined.
Viscosity;	
Dynamic:	Not determined.
Kinematic:	Not determined.

9.2 Other information

Auto activation temperature:	> 270°C.
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Section 10. Stability and reactivity**10.1 Reactivity**

Stable at intended use.

10.2 Chemical stability

The product is stable if stored and handled as prescribed.

Thermal decomposition/Conditions to avoid:

No decomposition if used as prescribed. Not self-reactive substance. Avoid storing at high temperatures (> 75 °C) or low temperatures (< -50 °C).

10.3 Possibility of hazardous reactions

Avoid high temperatures, heating, open fire and ignition sources, and prevent the effects of a grinding motion and impact forces that may result in ignition.

10.4 Conditions to avoid

Substance is non-combustible, but can have in specific conditions an oxidizing effect.

Heating causes a rise in pressure, risk of bursting and explosion.

Upon dismantling an intact generator, the contents shall be treated as an oxidizing material.

10.5 Incompatible materials

Organic compounds, metal powders, strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products are formed if stored under normal conditions. In case of heating or fire, irritating and/or toxic vapours may be released. See section 5.

Section 11. Toxicological information**11.1 Information on toxicological effects**

Acute toxicity from the components:

LD/LC50 values relevant for classification - reference ECHA registration database		
Product information: CAS# 7757-79-1	Potassium nitrate	
Oral	LD50	> 2000 mg/kg (rat, OECD 425, read across)
Inhalation	LC50 (4 h)	> 0.527 mg/l air (rat, OECD 403)
Dermal	LD50	> 5000 mg/kg (rat, OECD 402)

LD/LC50 values relevant for classification - reference ECHA registration database		
Product information: CAS# 461-58-5	Cyanoguanidine	
Oral	LD50	> 7000 mg/kg (rat, OECD 401)
Inhalation	LC0 (4 h)	> 259 mg/m ³ air (rat, OECD 403)
Dermal	LD50	> 2000 mg/kg (rabbit, OECD 402)

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LD/LC50 values relevant for classification - reference ECHA registration database		
Product information: CAS# 9003-35-4	Formaldehyde, oligomeric reaction products with phenol	
Oral	LD50	> 5000 mg/kg (rat)
Inhalation	LC50	-
Dermal	LD50	> 2000 mg/kg (rat)

The following health hazard assessment is based on an assessment of the various ingredients in the product.

Primary irritant effect:**on the skin:**

Slightly irritates the skin and the mucous membranes.

to the eye:

Irritant effect.

Germ cell mutagenicity:

Not classified.

Reproductive and developmental toxicity:

Not classified.

Sensitisation:

Contains formaldehyde, oligomeric reaction products with phenol which may cause sensitisation by skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Not classified.**Other information:**

When using and handling in accordance with the regulations the undamaged generator does not present any health dangers. After activating the generator, slightly irritations to skin due to increase of the pH value and slightly irritation of respiratory due to an increase of smoke (aerosol).

Section 12. Ecological information

12.1 Toxicity

Ecotoxicity from the components:

Aquatic toxicity - reference ECHA registration database		
Product information: CAS# 7757-79-1	Potassium nitrate	
Fish	LC50 (96 h)	> 100 mg/l (oncorhynchus mykiss, OECD 203, read across)
Water flea	EC50 (24 h)	490 mg/l (daphnia magna)
Algae	EC50 (10 d)	> 1700 mg/l (benthic diatoms)
Bacteria	EC50 (3 h)	> 180 mg/l (activated sludge, OECD 209)

Aquatic toxicity - reference ECHA registration database		
Product information: CAS# 461-58-5	Cyanoguanidine	
Fish	NOEC (96 h)	> 1000 mg/l (lepomis macrochirus)
Water flea	EC50 (48 h)	3177 mg/l (daphnia magna, OECD 202)
Algae	EC50 (4 d)	2.04 mg/l (pseudokirchneriella subcapitata, OECD 201)
Bacteria	TT (18 h)	130.6 mg/l (pseudomonas putida)

Aquatic toxicity - reference ECHA registration database		
Product information: CAS# 9003-35-4	Formaldehyde, oligomeric reaction products with phenol	
Fish	LC50 (96 h)	17 mg/l (pimephales promelas)
Water flea	EC50 (48 h)	18 mg/l (daphnia magna)
Algae	EC50 (96 h)	57.66 mg/l (green algae, QSAR)
Bacteria	EC50	-



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The following ecological risk assessment is based on an assessment of the various ingredients in the product.

12.2 Persistence and degradability

Partially inorganic and presumed to be partially biodegradable over the long-term.

12.3 Bioaccumulative potential

Bioaccumulation in organisms is not expected.

12.4 Mobility in soil

Low solubility in water.

Further ecological information

General information:

Water hazard class 1 (German regulation) (Self-assessment): slightly hazardous to water.

Do not discharge undiluted product into groundwater, surface water or sewage system.

12.5 Results of PBT and vPvB assessment

The mixture does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

12.6 Other adverse effects

When released in an aquatic environment damage can be caused by an increased pH.

The material can give off hydrogen sulphide with high hazard potential to animals.

Ozone Depletion Potential (ODP) = 0.

Global Warming Potential (GWP) = 0.

Section 13. Disposal considerations

13.1 Waste treatment methods

Recommendation:

Dispose of in accordance with local regulations.

Waste, even small quantities, should never be poured down watercourses.

EC Regulation for Disposal of Waste (EWC):

06 03 99. WASTES FROM INORGANIC CHEMICAL PROCESSES. Waste salts and their solutions, wastes from the manufacture, formulation, supply and use (MFSU) of salts and their solutions and metallic oxides; wastes not otherwise specified.

Section 14. Transport information

Land transport ADR/RID (cross-border)

ADR/GGVSEB class: Not a dangerous good according to the transport regulations.

Hazard identification number: -

UN number: -

Packing group: -

Label: -

Special marking: -

UN proper shipping name: -

Tunnel restriction code: -

Inland shipping ADN/ADR

ADN/R-class: -

UN number: -

Subsidiary risk

Environmental hazards: -

CMR properties: -

Buoyancy: -

Maritime transport IMDG

IMDG-class: -

UN number: -

Label: -

Packing group: -

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EMS number:	-
Marine pollutant:	-
Proper shipping name:	-
Air transport ICAO-TI and IATA-DGR	-
ICAO/IATA class:	-
UN number:	-
Label:	-
Packing group:	-
Proper shipping name:	-
14.1 UN number	-
14.2 UN proper shipping name	-
14.3 Transport hazard class(es)	-
14.4 Packing group	-
14.5 Environmental hazards	No.
14.6 Special precautions for user	None.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No further relevant information available.

Section 15. Regulatory information

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

National regulations:

Tactile warning: Void.

Child-resistant fastening: Void.

EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

Directive 89/686/EEC Personal protective equipment (is to be replaced from 21 April 2018 by regulation (EU) 2016/425).

Directive 98/24/EC Risks related to chemical agents at work.

Decision 2000/532/EC List of waste.

Regulation 1272/2008/EC On classification, labelling and packaging of substances and mixtures.

Regulation (EC) 2015/830 Commission regulation of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16. Other information

This information is based on the current state of our knowledge. It should not be construed as any guarantee of product characteristics, nor does it establish a legally valid contractual relationship.

List of relevant H- and EUH-phrases from sections 2 and 3

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Aquatic Chronic	Hazardous to the aquatic environment, chronic.
Eye Irrit.	Serious eye irritation.
Skin Sens.	Skin sensitization.

Classification according to Regulation

(EC) No 1272/2008: Classification of the mixture based on the standard calculation method.

Note: The standard classification for CAS# 7757-79-1 as crystals is Oxid. Solid 3.

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Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
P:	Marine Pollutant
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC50:	Half maximal effective concentration
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
OEL:	Occupational Exposure Limit
NOEC:	No Observed Effect Concentration
vPvB:	Very Persistent and Very Bioaccumulative
PBT	Persistent, Bioaccumulative and Toxic substance
EWC:	European Waste Catalogue
TWA:	Time-Weighted Average, limit value associated with the MAC value
DNEL:	Derived No-Effect Level
DMEL:	Derived Minimal Effect Level
PNEC:	Predicted No-Effect Concentration

NOTICE TO USERS

The information contained in this sheet are based on the knowledge available at the date of the preparation of this sheet. The user must be aware of the possible risks associated with the use of the product, other than that for which the product is supplied. The sheet does not exonerate the user from knowing and applying all the regulations governing its activities. The set of regulations mentioned is simply to help the user to fulfill its obligations regarding the use of hazardous products. This sheet does not exonerate the user from other legal obligations than those mentioned and from rules regulating possession and use of the product, since the user is the only responsible. *** This sheet supersedes all previous editions.

