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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
270303	BD BBL™ Catalyst Replacement Charges	No data available
260411	BD BBL™ GasPak 100 Lid	No data available
260610	BD BBL™ GasPak Anaerobic Systems	No data available
260626	BD BBL™ GasPak Anaerobic System w/rack	No data available
260627	BD BBL™ GasPak 100 Anaerobic System, Vented	No data available
260628	BD BBL™ GasPak 150 Large Anaerobic System	No data available
260637	BD BBL™ GasPak 100 Lid w/O Ring Gasket	No data available
260467	BD BBL™ GasPak 100 Vented Lid	No data available
260629	BD BBL™ GasPak 150 Large Anaerobic Sys Vent	No data available
260638	BD BBL™ GasPak 100 Vented Lid w/O Ring Gask	No data available



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270124	BD BBL™ Lid Inner For Gaspak 150	No data available
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Manufacturer

BD, Integrated Diagnostic Solutions
11, rue Aristide Bergès
38800 Le Pont de Claix
France

Telephone: 33 476 68 36 36

Contact Person: BD Diagnostic Systems Europe - Regulatory Compliance Department

E-mail: msds_europe@bd.com

1.4 Emergency telephone number: CHEMTREC 1 800 424 9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Inhalation - dust and mist)	Category 4	H332: Harmful if inhaled.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.

Environmental Hazards

Chronic hazards to the aquatic environment	Category 2	H411: Toxic to aquatic life with long lasting effects.
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2.2 Label Elements

Contains: Aluminium oxide

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Signal Word: Warning

Hazard Statement(s): H332: Harmful if inhaled.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
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.
P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.



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2.3 Other hazards

Endocrine Disruption-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Aluminium oxide	50 - <100%	1344-28-1	215-691-6	No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Aluminium oxide	Classification: Eye Irrit.: 2: H319; STOT SE: 3: H335; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 50: > 15,900 mg/kg Acute toxicity, inhalation: LC 50: 7.6 mg/l Acute toxicity, dermal: None known.	No data available.

CLP: Regulation No. 1272/2008.



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The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

4.1 Description of first aid measures

Inhalation: Get medical attention if any discomfort continues.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Eye contact: Important! Immediately rinse with water for at least 15 minutes. Get medical attention immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.

Treatment: Get immediate medical advice/attention.

SECTION 5: Firefighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

5.1 Extinguishing media

Suitable extinguishing media: Water spray, fog, CO₂, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.



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5.2 Special hazards arising from the substance or mixture: Fire or excessive heat may produce hazardous decomposition products.

**5.3 Advice for firefighters
Special fire fighting procedures:** No unusual fire or explosion hazards noted.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wash thoroughly after dealing with a spillage. Contact local authorities in case of spillage to drain/aquatic environment.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up: Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Avoid contact with eyes. Eye wash facilities and emergency shower must be available when handling this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

7.2 Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry, cool and well-ventilated place.

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Storage Temperature: No data available.

7.3 Specific end use(s): Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Aluminium oxide	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Aluminium oxide	General population	Oral	Systemic, long-term; 3.29 mg/kg body weight/day	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 15.63 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Oral	Systemic, long-term; 6.58 mg/kg body weight/day	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 15.63 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 15.63 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified



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Palladium	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Aluminium oxide	Sewage treatment plant	20 mg/l	
	Aquatic	74.9 µg/l	Hazard assessment conclusion: No data: aquatic toxicity unlikely.

Palladium	Sediment (freshwater)	0.274 mg/kg	
	Aquatic (freshwater)	0.027 µg/l	
	Soil	0.012 mg/kg	
	Aquatic (marine water)	0.003 µg/l	
	Sewage treatment plant	1.46 mg/l	
	Sediment (marine water)	0.027 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls:

Adequate ventilation should be provided whenever the material is heated or mists are generated.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Hand Protection:

Material: Chemical resistant gloves



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Skin and Body Protection:	Wear a lab coat or similar protective clothing.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Avoid contact with eyes. Wash hands after contact. Observe good industrial hygiene practices.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Gray
Odor:	No data available.
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.

Flammability: Not applicable

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable

Flash Point: Not applicable

Self Ignition Temperature: Not determined.

Decomposition Temperature: Not applicable

pH: No data available.

Viscosity

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: Not applicable

Solubility(ies)

Solubility in Water: Completely Soluble

Solubility (other): Water.: No data available.



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Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.
Bulk density:	Not applicable
Relative vapor density:	Not applicable
Particle characteristics	
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
Assessment:	Not applicable
Shape:	Not applicable
Crystallinity:	Not applicable
Surface treatment:	Not applicable

9.2 Other information

Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.
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SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight.
10.5 Incompatible Materials:	Strong oxidizing agents.
10.6 Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure



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Inhalation:	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin Contact:	Negligible irritation to skin at ambient temperatures.
Eye contact:	Irritating to eyes.
Ingestion:	Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract.

11.1 Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
Aluminium oxide	LD 50 (Rat): > 15,900 mg/kg Experimental result, Key study

Dermal

Product:	No data available.
Components:	
Aluminium oxide	No data available.

Inhalation

Product:	ATEmix: 1.91 mg/l Dusts, mists and fumes
Components:	
Aluminium oxide	LC 50 (Rat): 7.6 mg/l Aerosol, Experimental result, Key study NOAEL (Rat): 10 mg/m ³ Aerosol, Read-across from supporting substance (structural analogue or surrogate), Key study

Repeated dose toxicity

Product:	No data available.
Components:	
Aluminium oxide	NOAEL (Rat(Female, Male), Oral, 28 - 53 d): 1,000 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study LOAEL (Rat(Male), Inhalation): 28 mg/m ³ Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, > 364 d): 322.5 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Weight of



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Evidence study

Skin Corrosion/Irritation

Product: No data available.

Components:
Aluminium oxide in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Aluminium oxide Not irritating in vivo Rabbit, 24 hrs: EU

Respiratory or Skin Sensitization

Product: No data available.

Components:
Aluminium oxide Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

Components:
Aluminium oxide No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:
Aluminium oxide No data available.

In vivo

Product: No data available.

Components:
Aluminium oxide No data available.

Reproductive toxicity

Product: No data available.

Components:
Aluminium oxide No data available.



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Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Aluminium oxide No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
Aluminium oxide No data available.

Aspiration Hazard

Product: No data available.

Components:
Aluminium oxide No data available.

11.2 Information on health hazards

Other hazards

Product: No data available.

Endocrine Disruption

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:
Aluminium oxide No data available.

SECTION 12: Ecological information

12.1 Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No negative effects on the aquatic environment are known.

Components:
Aluminium oxide LC 50 (Pimephales promelas, 96 h): 35 mg/l Experimental result, Weight of



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Evidence study
LC 50 (Oncorhynchus mykiss, 96 h): 14.6 mg/l Experimental result, Weight of Evidence study

Aquatic Invertebrates

Product:

No negative effects on the aquatic environment are known.

Components:

Aluminium oxide

EC 50 (Ceriodaphnia dubia, 48 h): 1.9 mg/l Experimental result, Weight of Evidence study

Toxicity to Aquatic Plants

Product:

No data available.

Components:

Aluminium oxide

No data available.

Toxicity to microorganisms

Product:

No data available.

Components:

Aluminium oxide

No data available.

Chronic hazards to the aquatic environment:

Fish

Product:

No negative effects on the aquatic environment are known.

Components:

Aluminium oxide

EC 50 (Pimephales promelas, 7 d): 1.861 mg/l Experimental result, Weight of Evidence study

EC 50 (Pimephales promelas, 7 d): 1.453 mg/l Experimental result, Weight of Evidence study

Aquatic Invertebrates

Product:

No negative effects on the aquatic environment are known.

Components:

Aluminium oxide

EC 50 (Daphnia magna, 21 d): 1.097 mg/l Experimental result, Weight of Evidence study

EC 50 (Ceriodaphnia dubia, 7 d): 2.374 mg/l Experimental result, Weight of Evidence study

Toxicity to Aquatic Plants

Product:

No data available.

Components:

Aluminium oxide

No data available.

Toxicity to microorganisms

Product:

No data available.



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Components:

Aluminium oxide	No data available.
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12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
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Components:	
Aluminium oxide	No data available.

BOD/COD Ratio

Product:	No data available.
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Components:	
Aluminium oxide	No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
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Components:	
Aluminium oxide	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	Log Kow: No data available.
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Components:	
Aluminium oxide	No data available.

12.4 Mobility in soil:

Product	No data available.
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Components:	
Aluminium oxide	No data available.

12.5 Results of PBT and vPvB assessment:

Product	No data available.
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Components:		
Aluminium oxide	No data available.	No data available.

12.6 Endocrine Disruption:



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Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:
Aluminium oxide No data available.

12.7 Other adverse effects:

Other hazards

Product: No data available.

Components:
Aluminium oxide No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose of waste and residues in accordance with local authority requirements.

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

SECTION 14: Transport information

ADR

- 14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es)
Class: Not regulated.
Label(s): Not regulated.
Hazard No. (ADR): Not regulated.
Tunnel restriction code: Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.



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Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

ADN

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
Hazard No. (ADR):	Not regulated.
Tunnel restriction code:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

RID

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IMDG

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14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es)	
Class:	Not regulated.
Label(s):	Not regulated.
EmS No.:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

IATA

14.1 UN Number:	Not regulated.
14.2 Proper Shipping Name:	Not regulated.
14.3 Transport Hazard Class(es):	
Class:	Not regulated.
Label(s):	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental Hazards:	Not regulated.
Marine Pollutant:	Not regulated.
14.6 Special precautions for user:	Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:
none

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Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:
none

EU. REACH Annex XIV, Substances Subject to Authorization: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:
none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
E2. Hazardous to the aquatic environment	200 t	500 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:
none

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15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

No data available.

Key literature references and sources for data: No data available.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Acute toxicity, Category 4 Inhalation - dust and mist	Calculation method
Serious eye irritation, Category 2	
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method
Chronic hazards to the aquatic environment, Category 2	

Wording of the H-statements in section 2 and 3

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.



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Training information: No data available.

Classification according to Regulation (EC) No 1272/2008 as amended.

Acute Tox. 4, H332
Eye Irrit. 2, H319
STOT SE 3, H335
Aquatic Chronic 2, H411

SDS No.: UN000000000000270303-E-01

Disclaimer:

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