



Wonder Gel Stainless Steel Cleaner

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 3/8/2024 Revision date: 8/9/2024 Supersedes: 3/19/2024 Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Wonder Gel Stainless Steel Cleaner

1.2. Recommended use and restrictions on use

Recommended use : Stainless-steel cleaner
Restrictions on use : All other uses not recommended above

1.3. Supplier

Bradford Derustit Corp
P.O. Box 1194
Yorba Linda, California 92885
United States of America
T 714-695-0899
sales@derustit.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 3103

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Oxidizing liquids Category 3	May intensify fire; oxidizer
Acute toxicity (oral) Category 4	Harmful if swallowed
Skin corrosion/irritation Category 1B	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	Causes serious eye damage
Respiratory sensitization, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, Category 1	May cause an allergic skin reaction
Carcinogenicity Category 1A	May cause cancer
Reproductive toxicity Category 1B	May damage fertility or the unborn child
Specific target organ toxicity (repeated exposure) Category 2	May cause damage to organs through prolonged or repeated exposure

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)

: May intensify fire; oxidizer

: Harmful if swallowed

: Causes severe skin burns and eye damage

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Precautionary statements (GHS US)

May cause an allergic skin reaction
Causes serious eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause cancer
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles
Do not breathe spray, mist, vapors.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
[In case of inadequate ventilation] wear respiratory protection.
IF exposed or concerned: 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.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
If inhaled: If breathing is difficult, 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.
Get medical advice/attention if you feel unwell.
In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder to extinguish.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

18% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

92% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Calcium nitrate	CAS-No.: 10124-37-5	74	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Ammonium bifluoride	CAS-No.: 1341-49-7	10 – 20	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318

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Name	Product identifier	%	GHS US classification
Nickel Sulfate	CAS-No.: 7786-81-4	0.6	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 Repr. 1B, H360 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : 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.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Call a physician immediately.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 : Rinse mouth out with water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

Symptoms/effects after skin contact : Highly corrosive to skin. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Harmful if swallowed.

Most Important Symptoms/Effects : Corrosive effects. Risk of irreversible damage to affected area.

Chronic symptoms : May cause cancer. May cause damage to organs through prolonged or repeated exposure. May damage the unborn child.

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 chemical, CO₂, dry sand, or alcohol-resistant foam.

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

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5.2. Specific hazards arising from the chemical

Fire hazard

: May cause or intensify fire; oxidizer.

Hazardous decomposition products in case of fire

: Toxic fumes may be released. Nitrogen oxides. Hydrogen fluoride. Ammonia. Calcium oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions

: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Evacuate area. Eliminate all ignition sources if safe to do so. If possible, take container out of dangerous zone.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Avoid all personal contact including breathing in the mist, spray, vapors, fume. Do not take actions involving personal risks. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

Emergency procedures

: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, ventilate area, remove ignition sources. Prevent other non-emergency personnel from entering the danger area.

6.1.2. For emergency responders

Protective equipment

: Wear recommended personal protective equipment. Do not attempt to take action without suitable protective equipment.

Emergency procedures

: Evacuate personnel to a safe area. Do not touch spilled material. Ventilate spillage area. Remove all sources of ignition. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

: Contain with non-combustible inert absorbent.

Methods for cleaning up

: Mechanically recover the product. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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

: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Wear personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe fume, vapors, spray, mist. Do not get in eyes, on skin, or on clothing. Eliminate all ignition sources if safe to do so.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep cool. Protect from sunlight. Keep away from combustible material. Keep container tightly closed. Store in original container or corrosive resistant and/or lined container.

Incompatible materials : Combustible materials. Strong reducing agents. Metals. Organic materials. Aldehydes. Alcohols. Ammonia. Cyanides. Powdered metals. Strong acids. Amines. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Ammonium bifluoride (1341-49-7)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	2.5 mg/m ³ Expressed as: F
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Nickel Sulfate (7786-81-4)

No additional information available

Calcium nitrate (10124-37-5)

No additional information available

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. 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:

Chemically impervious gloves as described by OSHA's hand protection regulations in 29 CFR 1910.138 . The following materials are suitable for protective gloves: Butyl rubber, Nitrile rubber, Fluorocarbon rubber, Polyvinylchloride (PVC)

Eye protection:

Chemical goggles or face shield. The use of eye protection during handling of the product is mandatory.

Skin and body protection:

Wear suitable protective clothing. Body protection should be chosen depending on activity and possible exposure

Respiratory protection:

Use NIOSH approved respirator if ventilation is inadequate. SCBA for emergency responders. Must be used in accordance with an OSHA complaint respiratory protection program.

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: Gel.
Color	: Green
Odor	: Acidic
Odor threshold	: No data available
pH	: 2.66
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.2
Density	: 12 lbs./gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May cause or intensify fire; oxidizer.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials.

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10.5. Incompatible materials

Aldehydes. Alcohols. Combustible materials. Strong acids. Strong bases. Strong reducing agents. Metals. Organic materials. Ammonia. Powdered metals. Cyanides. Alkali metals. Amines.

10.6. Hazardous decomposition products

Nitrogen oxides. Calcium oxides. Hydrogen fluoride. Ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ATE US (oral)	470.673 mg/kg body weight
Unknown acute toxicity (GHS US)	18% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 92% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Ammonium bifluoride

LD50 oral rat	130 mg/kg
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Nickel Sulfate

LD50 oral rat	361.9 mg/kg body weight
LC50 Inhalation - Rat	2.48 mg/l air

Calcium nitrate

LD50 oral rat	1000 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns.
pH: 2.66

Calcium nitrate

pH	6
Serious eye damage/irritation	: Causes serious eye damage. pH: 2.66

Calcium nitrate

pH	6
Serious eye damage/irritation, rabbit	Corrosive
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified

Carcinogenicity : May cause cancer.

Nickel Sulfate

National Toxicity Program (NTP) Status	Known Human Carcinogens
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified

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STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Nickel Sulfate	
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Highly corrosive to skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.
Most Important Symptoms/Effects	: Corrosive effects. Risk of irreversible damage to affected area.
Chronic symptoms	: May cause cancer. May cause damage to organs through prolonged or repeated exposure. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ammonium bifluoride	
LC50 - Fish [1]	421.4 mg/l
EC50 - Crustacea [1]	97 – 153 mg/l
NOEC chronic fish	4 mg/l
NOEC chronic crustacea	0.79 mg/l

Calcium nitrate

LC50 - Fish [1]	10000 mg/l
EC50 - Crustacea [1]	490 mg/l
EC50 - Other aquatic organisms [1]	490 mg/l
LC50 - Fish [2]	1378 mg/l
EC50 96h - Algae [1]	16631.303 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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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.

Additional information : Do not re-use empty containers.

Ecological waste information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
3093	3093	3093
14.2. Proper Shipping Name		
Corrosive liquids, oxidizing, n.o.s. (Ammonium bifluoride ; Calcium nitrate)	CORROSIVE LIQUID, OXIDIZING, N.O.S. (Ammonium bifluoride ; Calcium nitrate)	Corrosive liquid, oxidizing, n.o.s. (Ammonium bifluoride ; Calcium nitrate)
14.3. Transport hazard class(es)		
8 (5.1)	8 (5.1)	8 (5.1)
 	 	 
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

DOT	
UN-No.(DOT)	: UN3093
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 89 - Segregation same as for oxidizers

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IMDG

Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES
Stowage category (IMDG)	:	C
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L
ERG code (IATA)	:	8X

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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.

Nickel Sulfate	CAS-No. 7786-81-4	0.6%
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Ammonium bifluoride (1341-49-7)

CERCLA RQ	100 lb
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Nickel Sulfate (7786-81-4)

CERCLA RQ	100 lb
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15.2. International regulations

CANADA

Ammonium bifluoride (1341-49-7)

Listed on the Canadian DSL (Domestic Substances List)

Nickel Sulfate (7786-81-4)

Listed on the Canadian DSL (Domestic Substances List)

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Calcium nitrate (10124-37-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Ammonium bifluoride (1341-49-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Nickel Sulfate (7786-81-4)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Calcium nitrate (10124-37-5)

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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Revision date : 8/9/2024

Full text of hazard classes and H-statements

H272	May intensify fire; oxidizer
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

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Full text of hazard classes and H-statements

H410	Very toxic to aquatic life with long lasting effects
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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 disruptor

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Added	No additional information available
	Revision date	Added	No additional information available
9	Density	Added	No additional information available

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.