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

1.1 Product identifier

Ready Booster / Ready Booster 60

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Lubrication system

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

NTN Europe
1 rue des usines
74000 Annecy
FR
Tel : +33 (0)4 50 65 30 00

Address enquiries to

Technical information NTN Europe laboratory services

Safety Data Sheet fds@ntn-snr.fr

1.4 Emergency telephone number

Company +33 (0) 4 50 65 30 00 (Mo-Fr 8:00-16:30)

Emergency (France) ORFILA (INRS) +33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Ox. Liq. 2: H272 May intensify fire; oxidiser.
Acute Tox. 3: H301 Toxic if swallowed.
Acute Tox. 2: H310 Fatal in contact with skin.
Acute Tox. 2: H330 Fatal if inhaled.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H335 May cause respiratory irritation.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Carc. 1A: H350i May cause cancer by inhalation.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Repr. 1B: H360FD May damage fertility. May damage the unborn child.
Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

This product is an article and therefore it does not require labelling according to regulations REACH/CLP.

2.3 Other hazards

Physico-chemical hazards The structural design of the cells prevents release of the hazardous media contained therein when the unit is used for its intended purpose.
The device contains an inaccessible stock of hazardous substances in a closed cartridge in order to produce the gases needed for operation (nitrogen/hydrogen). Do not therefore open the device or cartridge by force. Do not touch any substances that escape in the event of damage to the cartridge, and place the damaged cartridge in a closed container. While doing so, wear protective gloves and avoid contact with skin. Contact the manufacturer immediately. Further information is available on request.

Human health dangers The contained dangerous materials are not freely available with foreseeable use.

Environmental hazards The contained dangerous materials are not freely available with foreseeable use.
Contains no ingredients with endocrine-disrupting properties.

Other hazards No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is an article.

Range [%]	Substance
< 40	Manganese dioxide
	CAS: 1313-13-9, EINECS/ELINCS: 215-202-6, EU-INDEX: 025-001-003
	GHS/CLP: Acute Tox. 4: H302 H332
10 - <20	magnesium perchlorate
	CAS: 10034-81-8, EINECS/ELINCS: 233-108-3
	GHS/CLP: Ox. Sol. 2: H272 - Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - STOT SE 3: H335
10 - <15	Sodium azide
	CAS: 26628-22-8, EINECS/ELINCS: 247-852-1, EU-INDEX: 011-004-00-7
	GHS/CLP: Acute Tox. 1: H310 - Acute Tox. 2: H300 H330 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH032
< 10	Propylene carbonate
	CAS: 108-32-7, EINECS/ELINCS: 203-572-1, EU-INDEX: 607-194-00-1, Reg-No.: 01-2119537232-48-XXXX
	GHS/CLP: Eye Irrit. 2: H319
< 6	1,2-Dimethoxyethane
	CAS: 110-71-4, EINECS/ELINCS: 203-794-9, EU-INDEX: 603-031-00-3
	GHS/CLP: Flam. Liq. 2: H225 - Acute Tox. 4: H332 - Repr. 1B: H360FD - EUH019
< 3	Lithium
	CAS: 7439-93-2, EINECS/ELINCS: 231-102-5, EU-INDEX: 003-001-00-4
	GHS/CLP: Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Water-react. 1: H260 - EUH014
0,1 - < 0,25	Nickel sulphate hexahydrate
	CAS: 10101-97-0, EINECS/ELINCS: 232-104-9, EU-INDEX: 028-009-00-5
	GHS/CLP: Acute Tox. 4: H302 H332 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Resp. Sens. 1: H334 - Muta. 2: H341 - Carc. 1A: H350i - Repr. 1B: H360D - STOT RE 1: H372 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
	SCL [%]: >= 1: STOT RE 1: H372, >=0,1 - <1: STOT RE 2: H373, >= 20: Skin Irrit. 2: H315, >= 0,01: Skin Sens. 1: H317

Comment on component parts

For full text of H-statements: see SECTION 16.
The structural design of the cells prevents release of the hazardous media contained therein when the unit is used for its intended purpose.
The concentrations of the ingredients are valid for batteries. They are not for the complete system.
The concentrations of the ingredients are valid for gas generation cell. They are not for the complete system.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Measures are only valid for damaged lubrication systems.
Adhere to personal protective measures when giving first aid.

Inhalation

Consult a doctor immediately.
Remove the victim into fresh air and keep him calm.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor immediately.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.
Induce the patient to vomit of his own accord only if fully conscious.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam.
Dry powder.
Water spray jet.
Carbon dioxide.

Extinguishing media that must not be used

none

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Nitrogen oxides (NOx).
Hydrogen chloride (HCl).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.

Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep people away and stay on the upwind side.
Use personal protective equipment.
Use breathing apparatus if exposed to vapours/dust/aerosol.
Lock off contaminated area.

6.2 Environmental precautions

Do not discharge leakages into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Dispose of absorbed material in accordance within the regulations.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

No special measures necessary.

Keep container tightly closed.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance
Sodium azide
CAS: 26628-22-8, EINECS/ELINCS: 247-852-1, EU-INDEX: 011-004-00-7
Long-term exposure: 0,1 mg/m³, Sk
Short-term exposure (15-minute): 0,3 mg/m³
Nickel sulphate
CAS: 7786-81-4, EINECS/ELINCS: 232-104-9, EU-INDEX: 028-009-00-5, Reg-No.: 01-2119439361-44-XXXX
Long-term exposure: 0,1 mg/m³, as Ni, Sk, Sen
Manganese dioxide
CAS: 1313-13-9, EINECS/ELINCS: 215-202-6, EU-INDEX: 025-001-003
Long-term exposure: 0,2 mg/m³, inhalable fraction, 0,05 respirable fraction (as Mn)

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Sodium azide
CAS: 26628-22-8, EINECS/ELINCS: 247-852-1, EU-INDEX: 011-004-00-7
Eight hours: 0,1 mg/m³, H
Short-term (15-minute): 0,3 mg/m³
Manganese dioxide
CAS: 1313-13-9, EINECS/ELINCS: 215-202-6, EU-INDEX: 025-001-003
Eight hours: 0,2(1) 0,05(2) mg/m³, (1) Inhalable fraction. (2) Respirable fraction. (as Mn)

DNEL

Substance
Propylene carbonate, CAS: 108-32-7
Industrial, inhalative, Long-term - systemic effects, 70,53 mg/m³
Industrial, inhalative, Long-term - local effects, 20 mg/m³
Industrial, dermal, Long-term - systemic effects, 20 mg/kg bw/day
Industrial, dermal, Long-term - local effects, 10 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 17,4 mg/m³
general population, inhalative, Long-term - local effects, 10 mg/m³
general population, dermal, Long-term - systemic effects, 10 mg/kg bw/day
general population, oral, Long-term - systemic effects, 10 mg/kg bw/day

PNEC

Substance
Propylene carbonate, CAS: 108-32-7
freshwater, 0,9 mg/L
seawater, 0,09 mg/L
sewage treatment plants (STP), 7400 mg/L
soil, 0,81 mg/kg soil dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Measures are only valid for damaged lubrication systems. If there is a risk of splashing: Safety glasses. (EN 166:2001)
Hand protection	Not required under normal conditions. Measures are only valid for damaged lubrication systems. The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4 mm: Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Measures are only valid for damaged lubrication systems. Protective clothing (EN 340)
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes. The contained dangerous materials are not freely available with foreseeable use.
Respiratory protection	If ventilation is insufficient, wear respiratory protection.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	capsule
Form	capsule
Color	
Odor	
Odour threshold	not applicable
pH-value	8,3 - 8,8
pH-value [1%]	No information available.
Boiling point or initial boiling point and boiling range [°C]	No information available.
Flash point [°C]	not applicable
Flammability	yes
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	miscible (Liquid)
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	not applicable
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids and strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product
ATE-mix, oral, ca. 210 mg/kg bw

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
LD50, oral, Rat, > 3200 mg/kg (Gestis)
magnesium perchlorate, CAS: 10034-81-8
LD50, Rat, 1490 mg/kg
Propylene carbonate, CAS: 108-32-7
LD50, oral, Rat, > 5000 mg/kg
Nickel sulphate hexahydrate, CAS: 10101-97-0
LD50, oral, Rat, 281 - 361,9 mg/kg
Sodium azide, CAS: 26628-22-8
LD50, oral, Rat, 27 mg/kg
Manganese dioxide, CAS: 1313-13-9
ATE, oral, 500 mg/kg (category 4)

Acute dermal toxicity

Product
ATE-mix, dermal, ca. 160 mg/kg

Substance
Propylene carbonate, CAS: 108-32-7
LD50, dermal, Rabbit, > 2000 mg/kg
Sodium azide, CAS: 26628-22-8
LD50, dermal, Rabbit, 20 mg/kg
Manganese dioxide, CAS: 1313-13-9
LD50, dermal, > 2000 mg/kg

Acute inhalational toxicity

Product
ATE-mix, inhalative, ca. 0,46 mg/l

Substance
Nickel sulphate hexahydrate, CAS: 10101-97-0
LC50, inhalativ (mist), Rat, 2,48 mg/L
Sodium azide, CAS: 26628-22-8
LC50, inhalativ (dust/mist), Rat, > 0,054 mg/l, 4h
Manganese dioxide, CAS: 1313-13-9
ATE, inhalativ (dust), 1,5 mg/l/4h (category 4)

Serious eye damage/irritation

Toxicological data of complete product are not available.
Irritant
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
Eye, Rabbit, negativ, OECD 405, negativ
Propylene carbonate, CAS: 108-32-7
Eye, irritant
Manganese dioxide, CAS: 1313-13-9

no adverse effect observed

Skin corrosion/irritation

Toxicological data of complete product are not available.
Irritant
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
dermal, Rabbit, OECD 404, negativ
Propylene carbonate, CAS: 108-32-7
dermal, non-irritating
Manganese dioxide, CAS: 1313-13-9
no adverse effect observed

Respiratory or skin sensitisation

Toxicological data of complete product are not available.
May cause an allergic skin reaction.
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
OECD 429, non-sensitizing
Manganese dioxide, CAS: 1313-13-9
no adverse effect observed

Specific target organ toxicity — single exposure

Toxicological data of complete product are not available.
May cause respiratory irritation.
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
No information available.

Specific target organ toxicity — repeated exposure

Toxicological data of complete product are not available.
May cause damage to organs through prolonged or repeated exposure.
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
NOAEC, oral, Rat (female), 132 mg/kg bw/day, In vivo study, negativ
Propylene carbonate, CAS: 108-32-7
NOAEL, oral, Rat, 5000 mg/kg bw/day (subchronic), no adverse effect observed
NOAEC, inhalative, Rat, 1000 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.

Mutagenicity

Toxicological data of complete product are not available.
No classification.
Calculation method

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
Ames-test, negativ
Propylene carbonate, CAS: 108-32-7
in vitro, negativ
in vivo, negativ
negativ

Reproduction toxicity

Toxicological data of complete product are not available.
No classification.
Calculation method

- Fertility

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
NOAEL, oral, Rat, 132 mg/kg bw/day, adverse effect observed

NOAEC, inhalative, Rat, 187 mg/m³, OECD 414, adverse effect observed
Propylene carbonate, CAS: 108-32-7
NOAEL, oral, mouse, 10100 mg/kg bw/day (subchronic), no adverse effect observed

- Development

Substance
Propylene carbonate, CAS: 108-32-7
NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), The effects observed are not sufficient for classification.

Carcinogenicity Toxicological data of complete product are not available.
Does contain a relevant substance that meets the classification criteria.
Calculation method

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks The contained ingredients can be harmful to humans, but are hermetically enclosed in article and can not be released.

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
1,2-Dimethoxyethane, CAS: 110-71-4
LC50, (96h), Fish, > 5000 mg/L
EC50, (48h), Daphnia magna, 4000 mg/L
Lithium, CAS: 7439-93-2
EC50, (48h), Invertebrates, 19,1 - 34,3 mg/L
EC50, (72h), Algae, 41,62 - 153,44 mg/L
magnesium perchlorate, CAS: 10034-81-8
EC50, (48h), Daphnia magna, 100 mg/L
Propylene carbonate, CAS: 108-32-7
LC50, (96h), Leuciscus idus, ~ 5300 mg/l
EC50, (48h), Daphnia magna, 500 mg/l
LC0, (96h), Cyprinus carpio, 1000 mg/l
NOEC, (72h), Desmodesmus subspicatus, 900 mg/l
EC10, Pseudomonas putida, > 10000 mg/l (17 h)
Nickel sulphate hexahydrate, CAS: 10101-97-0
LC50, (96h), Fish, 15,3 mg/L
LC50, (48h), Invertebrates, 13 - 276 µg/L
EC50, (72h), Algae, 40,7 - 1430 µg/L
Sodium azide, CAS: 26628-22-8
LC50, (96h), Oncorhynchus mykiss, 2,75 mg/l (ECHA)
EC50, (96h), Algae, 0,35 mg/l (ECHA)
EC50, (3h), Microorganisms, 79,3 mg/l (ECHA)
NOEC, (3h), Microorganisms, 0,244 mg/l (ECHA)

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not applicable
Biological degradability	not applicable

Substance
Sodium azide, CAS: 26628-22-8
The methods for determining the boilogical degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

12.7 Other adverse effects

Ecological data of complete product are not available.
The contained ingredients can be harmful for the environment, but they are hermetically enclosed in article and can not be released.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	3363
Inland navigation (ADN)	3363
Marine transport in accordance with IMDG	3363
Air transport in accordance with IATA	3363

14.2 UN proper shipping name

Transport by land according to ADR/RID	Dangerous goods in apparatus
- Classification Code	M11
Inland navigation (ADN)	Dangerous goods in apparatus
- Classification Code	M11
Marine transport in accordance with IMDG	Dangerous Goods in apparatus
- EMS	F-A, S-P
- Label	
- IMDG LQ	SV301
Air transport in accordance with IATA	Dangerous goods in apparatus
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	9
Inland navigation (ADN)	9
Marine transport in accordance with IMDG	9
Air transport in accordance with IATA	9

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0.1% CAS 110-71-4 - 1,2-Dimethoxyethane
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 27, 28, 30, 40, 72, 75
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for women of child-bearing age, for mothers-to-be and nursing mothers and for young people.
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

EUH032 Contact with acids liberates very toxic gas.
H373 May cause damage to organs through prolonged or repeated exposure.
H300+H330 Fatal if swallowed or if inhaled.
H310 Fatal in contact with skin.
EUH014 Reacts violently with water.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
EUH019 May form explosive peroxides.
H360FD May damage fertility. May damage the unborn child.
H332 Harmful if inhaled.
H225 Highly flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H372 Causes damage to organs through prolonged or repeated exposure.
H360D May damage the unborn child.
H350i May cause cancer by inhalation.
H341 Suspected of causing genetic defects.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H302+H332 Harmful if swallowed or if inhaled.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H272 May intensify fire; oxidiser.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff not determined

Classification procedure

Ox. Liq. 2: H272 May intensify fire; oxidiser. (Calculation method)
Acute Tox. 3: H301 Toxic if swallowed. (Calculation method)
Acute Tox. 2: H310 Fatal in contact with skin. (Calculation method)
Acute Tox. 2: H330 Fatal if inhaled. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Carc. 1A: H350i May cause cancer by inhalation. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Repr. 1B: H360FD May damage fertility. May damage the unborn child. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position 1.3, 2.1, 3.2, 4.1, 8.1, 9.1, 11.1, 12.1, 15.1, 16.1, 16.2, 16.3