



# JT-2000 N

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 13-03-10 Revision date: 23-02-23 Supersedes version of: 06-04-20 Version: 12.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : JT-2000 N  
Product code : JT-2000 N  
Vaporizer : Aerosol

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use  
Use of the substance/mixture : Lubricant.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

TCE-TOOLS  
Kennedylaan 14  
5466 AA Veghel  
The Netherlands  
T +31 (413) 38 83 10  
www.tce-tools.com

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H- and EUH-statements: see section 16

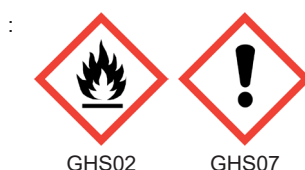
##### Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Causes serious eye irritation.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Danger  
Hazard statements (CLP) : H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H319 - Causes serious eye irritation.

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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P280 - Wear protective gloves, eye protection. 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. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F. P501 - Dispose of contents and container to a hazardous or special waste collection point.
Extra phrases	: Not to be used for any purpose other than the one the product was designed for. For use in industrial installations only.

### 2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37	50 - 100	Flam. Gas 1A, H220 Press. Gas
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (GB)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	10 - 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Acetone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	10 - 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
ethanol; ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	( 50 $\leq$ C < 100) Eye Irrit. 2, H319

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Move the affected person away from the contaminated area and into the fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Wash with plenty of water/.... If case of redness or irritation, call a doctor. Wash skin with plenty of water.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If irritation persists, consult an eye specialist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Transfer to hospital rapidly. Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Drowsiness. Dizziness, headaches, nausea.
Symptoms/effects after skin contact	: Drying up of the skin. Dermatitis.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Irritation to the digestive tract. CNS depression. Dizziness, headaches, nausea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Carbon dioxide. Alcohol resistant foam. Dry powder. Foam.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Pressurized container. On heating there is a risk of bursting due to internal pressure build-up. Toxic fumes may be released. Flammable or explosive vapour/air mixtures may be formed. Extremely flammable aerosol.
Explosion hazard	: Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Various hydrocarbon fragments.

#### 5.3. Advice for firefighters

Firefighting instructions	: Evacuate the danger area. Do not breathe fumes. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

General measures	: No flames, no sparks. Eliminate all sources of ignition. No smoking.
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##### 6.1.1. For non-emergency personnel

Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid contact with skin and eyes. Do not breathe gas. No open flames, no sparks, and no smoking.
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### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate spillage area.

### 6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains (explosive hazard). Do not allow product to spread into the environment. Notify authorities if product enters sewers or public waters.

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

- For containment : Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Collect the residue by means of a non-combustible absorbent material.
- Methods for cleaning up : Wash contaminated area with large amounts of water. Mechanically recover the product.
- Other information : Dispose of contaminated materials in accordance with current regulations. Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Ensure good ventilation of the work station.
- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Remove all sources of ignition. Use non-sparking tools. Avoid the build-up of electrostatic charge. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not spray continuously. Proceed by brief bursts. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Wear personal protective equipment.
- Hygiene measures : Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Keep container dry. Store in a cool, well-ventilated place. Keep away from heat. Protect from sunlight. Keep away from sources of ignition. Keep in the dark. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep cool.
- Incompatible products : Strong oxidizers. Strong acids. Strong bases.
- Special rules on packaging : Keep only in original container.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

dimethyl ether (115-10-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Dimethylether
IOEL TWA	1920 mg/m³
IOEL TWA [ppm]	1000 ppm

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dimethyl ether (115-10-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Dimethyl ether
WEL TWA (OEL TWA) [1]	766 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	958 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	500 ppm
ethanol; ethyl alcohol (64-17-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (OEL TWA) [1]	1920 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	1000 ppm
Acetone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetone
IOEL TWA	1210 mg/m <sup>3</sup>
IOEL TWA [ppm]	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Acetone
WEL TWA (OEL TWA) [1]	1210 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	500 ppm
WEL STEL (OEL STEL)	3620 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	1500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

ethanol; ethyl alcohol (64-17-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	19 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0,96 mg/l
PNEC aqua (marine water)	0,79 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,6 mg/kg dwt

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<b>ethanol; ethyl alcohol (64-17-5)</b>	
PNEC sediment (marine water)	2,9 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,63 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,72 mg/l
<b>Acetone (67-64-1)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	2420 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1210 mg/m <sup>3</sup>
Long-term - local effects, inhalation	2420 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	62 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	10,6 mg/l
PNEC aqua (marine water)	1,06 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	30,4 mg/kg dwt
PNEC sediment (marine water)	3,04 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	33,3 mg/l
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	29,5 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

#### Personal protective equipment symbol(s):



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### 8.2.2.1. Eye and face protection

#### Eye protection:

tightly fitting safety goggles. Safety glasses

### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1. Breakthrough time : refer to the recommendations of the supplier

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Not available
Appearance	: Aerosol.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: -24 °C
Flammability	: Extremely flammable gas,Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: Not available
Lower explosion limit (LEL)	: 2,6 vol %
Upper explosion limit (UEL)	: 18,6 vol %
Flash point	: -42 °C
Auto-ignition temperature	: 235 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Practically not miscible.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 5200 hPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0,895 (20°C)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 100 %

#### 9.2.2. Other safety characteristics

VOC content : 96,1 %

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use. Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

#### 10.3. Possibility of hazardous reactions

Pressurised container: May burst if heated.

#### 10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition. Moisture. Avoid contact with hot surfaces.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Various hydrocarbon fragments.

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

##### dimethyl ether (115-10-6)

LC50 Inhalation - Rat	312 mg/l/4h
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##### ethanol; ethyl alcohol (64-17-5)

LD50 oral	10470 mg/kg
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LD50 dermal	15800 mg/kg
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##### Acetone (67-64-1)

LD50 oral rat	5800 mg/kg OCDE 401
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LD50 dermal rat	15800 mg/kg
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LC50 Inhalation - Rat (Vapours)	76 mg/l/4h
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

##### Acetone (67-64-1)

pH	5 – 6 50%
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Serious eye damage/irritation : Causes serious eye irritation. (Based on available data, the classification criteria are not met)

##### Acetone (67-64-1)

pH	5 – 6 50%
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Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)



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### Acetone (67-64-1)

STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Vaporizer	Aerosol
<b>Acetone (67-64-1)</b>	
Viscosity, kinematic	0,32 mm <sup>2</sup> /s 20°C

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### dimethyl ether (115-10-6)

LC50 - Fish [1]	> 4000
EC50 - Crustacea [1]	> 4000 mg/l

### ethanol; ethyl alcohol (64-17-5)

LC50 - Fish [1]	11200 mg/l
EC50 - Crustacea [1]	12340 mg/l
EC50 72h - Algae [1]	275 mg/l

### Acetone (67-64-1)

LC50 - Fish [1]	5540 mg/l <i>Oncorhynchus mykiss</i>
LC50 - Fish [2]	> 100 mg/l <i>Pimephales promelas</i>
EC50 - Crustacea [1]	8800 mg/l <i>Daphnia magna</i>
NOEC chronic crustacea	2212 mg/l <i>Daphnia magna</i>

### 12.2. Persistence and degradability

### Acetone (67-64-1)

Persistence and degradability	Readily biodegradable.
Chemical oxygen demand (COD)	2,21 g O <sub>2</sub> /g substance
Biodegradation	91 %

### 12.3. Bioaccumulative potential

### ethanol; ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0,32
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### Acetone (67-64-1)

Bioconcentration factor (BCF REACH)	3
Partition coefficient n-octanol/water (Log Pow)	-0,24
Bioaccumulative potential	Not potentially bioaccumulable.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Do not pierce or burn, even after use. Empty the packaging completely prior to disposal. Recycle or dispose of in compliance with current legislation.
HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR)	: UN 1950
UN-No. (IMDG)	: UN 1950
UN-No. (IATA)	: UN 1950
UN-No. (ADN)	: UN 1950
UN-No. (RID)	: UN 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable

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Proper Shipping Name (ADN)	: AEROSOLS
Proper Shipping Name (RID)	: AEROSOLS
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1 (-42°C c.c.)
Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1
Transport document description (ADN)	: UN 1950 AEROSOLS, 2.1
Transport document description (RID)	: UN 1950 AEROSOLS, 2.1

### 14.3. Transport hazard class(es)

<b>ADR</b>	
Transport hazard class(es) (ADR)	: 2.1
Danger labels (ADR)	: 2.1
	:



<b>IMDG</b>	
Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1
	:



<b>IATA</b>	
Transport hazard class(es) (IATA)	: 2.1
Danger labels (IATA)	: 2.1
	:



<b>ADN</b>	
Transport hazard class(es) (ADN)	: 2.1
Danger labels (ADN)	: 2.1
	:



<b>RID</b>	
Transport hazard class(es) (RID)	: 2.1
Danger labels (RID)	: 2.1
	:



### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

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### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

#### Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP02
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None

#### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

#### Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 19, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

#### Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP02
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2

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Special provisions for carriage – Packages (RID) : W14  
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12  
Colis express (express parcels) (RID) : CE2  
Hazard identification number (RID) : 23

### 14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

###### EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(a)	JT-2000 N; ethanol; ethyl alcohol ; Acetone
3(b)	JT-2000 N; ethanol; ethyl alcohol ; Acetone
40.	dimethyl ether ; ethanol; ethyl alcohol ; Acetone

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content : 96,1 %

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see [https://ec.europa.eu/home-affairs/system/files/2021-11/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf)

##### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

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### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

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

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### Abbreviations and acronyms:

vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

### Full text of H- and EUH-statements:

EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Press. Gas	Gases under pressure
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

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.