

## SAFETY DATA SHEET

# RT-177 RUSTOPLØSER

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

#### 1.1. Product identifier

▼ Trade name  
RT-177 RUSTOPLØSER

Product no.  
18715

Unique formula identifier (UFI)  
D600-E0MX-U00M-5A5U

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

Relevant identified uses of the substance or mixture  
Penetrant

Use descriptors (REACH)

Product category	Description
PC24	Lubricants, Greases and Release Products

▼ Uses advised against  
None known.

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

Company and address  
**ITW Spraytec Nordic**  
Priorsvej 36  
DK-8600 Silkeborg  
Denmark  
Tel: +45 86 82 64 44

E-mail  
info@itw-spraytec.dk

Revision  
15/12/2022

SDS Version  
2.0

Date of previous version  
14/09/2020 (1.0)

#### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).  
See section 4 "First aid measures".

### SECTION 2: Hazards identification

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

Aerosol 1; H222, H229, Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word  
Danger

▼ Hazard statement(s)  
Extremely flammable aerosol. Pressurised container: May burst if heated. (H222, H229)

Safety statement(s)  
General

- 
- ▼ **Prevention**
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
  - Do not spray on an open flame or other ignition source. (P211)
  - Do not pierce or burn, even after use. (P251)
  - Use only outdoors or in a well-ventilated area. (P271)
  - Wear protective gloves/protective clothing/eye protection/face protection. (P280)

#### Response

-

#### ▼ **Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412)

#### Disposal

-

#### ▼ **Hazardous substances**

None known.

#### ▼ **Additional labelling**

UFI: D600-E0MX-U00M-5A5U

### 2.3. Other hazards

#### ▼ **Additional warnings**

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive. This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. ▼ **Substances**

Not applicable. This product is a mixture.

### 3.2. ▼ **Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS No.: EC No.: UK-REACH: Index No.:	40-60%	EUH066 Asp. Tox. 1, H304 (SCL: 100.00 %)	
Highly refined mineral oil (DMSO <3%, IP346)	CAS No.: EC No.: UK-REACH: Index No.:	15-<25%		
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 UK-REACH: Index No.: 601-003-00-5	10-<15%	Flam. Gas 1A, H220	
Butane (<0,1 % w/w 1,3-butadiene)	CAS No.: 106-97-8 EC No.: 203-448-7 UK-REACH: Index No.: 601-004-00-0	5-<10%	Flam. Gas 1A, H220	
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 UK-REACH: Index No.: 603-002-00-5	2,5-<5,0%	Flam. Liq. 2, H225	
Isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 UK-REACH: Index No.: 601-004-00-0	2,5-<5,0%	Flam. Gas 1A, H220 Press. Gas (Liq.) , H280	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 UK-REACH:	1-<2,5%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### ▼ Other information

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

##### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

##### ▼ Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

##### Eye contact

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

##### Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

##### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

None known.

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

None known.

##### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. ▼ Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. ▼ Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

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

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. ▼ Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. ▼ Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

#### ▼ Recommended storage material

Keep only in original packaging.

#### ▼ Storage temperature

< 50°C

Protected from direct sunlight.

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. ▼ Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. ▼ Control parameters

Butane (<0,1 % w/w 1,3-butadiene)

Long term exposure limit (8 hours) (ppm): 600

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1450

Short term exposure limit (15 minutes) (ppm): 750

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1810

Annotations:

Carc1 = Capable of causing cancer and/or heritable genetic damage if it contains more than 0.1% of buta-1,3-diene.

Ethanol

Long term exposure limit (8 hours) (ppm): 1000

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 1920

Propan-2-ol

Long term exposure limit (8 hours) (ppm): 400

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 999

Short term exposure limit (15 minutes) (ppm): 500

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1250

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.

EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### ▼ DNEL

Ethanol

Duration	Route of exposure	DNEL
Long term – Systemic effects - Workers	Dermal	343 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	380 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	1900 mg/m <sup>3</sup>

Propan-2-ol			
Duration	Route of exposure	DNEL	
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day	
Long term – Systemic effects - Workers	Inhalation	500 mg/m <sup>3</sup>	
Short term – Systemic effects - Workers	Inhalation	1000 mg/m <sup>3</sup>	

▼ PNEC			
Ethanol			
Route of exposure	Duration of Exposure	PNEC	
Freshwater		960 µg/L	
Freshwater sediment		3.6 mg/kg	
Intermittent release (freshwater)		2.75 mg/L	
Marine water		790 µg/L	
Marine water sediment		2.9 mg/kg	
Sewage treatment plant		580 mg/L	

Propan-2-ol			
Route of exposure	Duration of Exposure	PNEC	
Freshwater		140.9 mg/L	
Freshwater sediment		552 mg/kg	
Intermittent release (freshwater)		140.9 mg/L	
Marine water		140.9 mg/L	
Marine water sediment		552 mg/kg	
Sewage treatment plant		2.251 g/L	

## 8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### ▼ General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### ▼ Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

### Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

### ▼ Measures to avoid environmental exposure

No specific requirements.

## 8.3. Individual protection measures, such as personal protective equipment

### ▼ Generally

No specific requirements

### Respiratory Equipment

Respiratory protection is not normally required in well-ventilated areas. In case of inadequate ventilation a respirator with filter AX is recommended.

### Skin protection

No special requirements.

### Hand protection

Gloves are usually not required. In case of prolonged or repeated skin contact, Nitrile gloves are recommended.

### Eye protection

Wear safety goggles if there is a risk of eye splash.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

### Physical state

Aerosol

### Colour

Colourless

### ▼ Odour / Odour threshold

Sweet

### pH

ca. 7

### ▼ Density (g/cm<sup>3</sup>)

0.6

### ▼ Kinematic viscosity

No data available

### ▼ Particle characteristics

No data available

## Phase changes

### ▼ Melting point/Freezing point (°C)

No data available

### ▼ Softening point/range (waxes and pastes) (°C)

Does not apply to aerosols.

### ▼ Boiling point (°C)

No data available

### ▼ Vapour pressure

No data available

### ▼ Relative vapour density

No data available

### ▼ Decomposition temperature (°C)

No data available

## Data on fire and explosion hazards

### ▼ Flash point (°C)

-50

### ▼ Auto-Ignition (°C)

No data available

### ▼ Flammability (°C)

No data available

### ▼ Lower and upper explosion limit (% v/v)

No data available

## Solubility

### ▼ Solubility in water

No data available

### ▼ n-octanol/water coefficient

No data available

### ▼ Solubility in fat (g/L)

No data available

## 9.2. Other information

### ▼ Evaporation rate (n-butylacetate = 100)

No data available

### ▼ Other physical and chemical parameters

No data available.

## SECTION 10: Stability and reactivity

### 10.1. ▼ Reactivity

No data available.

### 10.2. ▼ Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. ▼ Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid static electricity.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

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

##### ▼ Acute toxicity

Product/substance	Ethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	10470 mg/kg bw ·
Other information	

##### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

##### ▼ Respiratory sensitisation

Based on available data, the classification criteria are not met.

##### Skin sensitisation

Based on available data, the classification criteria are not met.

##### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

##### Carcinogenicity

Based on available data, the classification criteria are not met.

##### Reproductive toxicity

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### ▼ Long term effects

None known.

##### ▼ Endocrine disrupting properties

None known.

##### ▼ Other information

Ethanol has been classified by IARC as a group 1 carcinogen.  
Propan-2-ol has been classified by IARC as a group 3 carcinogen.

### SECTION 12: Ecological information

#### 12.1. ▼ Toxicity

Product/substance	Ethanol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	14,2 g/L ·
Other information	

Product/substance	Ethanol
Test method	
Species	Daphnia

Compartment  
Duration 48 hours  
Test EC50  
Result > 5000 mg/L ·  
Other information

Product/substance Ethanol  
Test method  
Species Algae  
Compartment  
Duration 72 hours  
Test IC50  
Result > 100 mg/L ·  
Other information

#### 12.2. ▼ Persistence and degradability

No data available.

#### 12.3. ▼ Bioaccumulative potential

Product/substance Butane (<0,1 % w/w 1,3-butadiene)  
Test method  
Potential bioaccumulation No  
LogPow 2,8900  
BCF No data available.  
Other information

#### 12.4. ▼ Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. ▼ Endocrine disrupting properties

None known.

#### 12.7. ▼ Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste.

To the extent the material has not been subject to regular tests of peroxide formation the waste shall be treated as explosive waste.

HP 3 - Flammable

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### EWC code

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances


#### ▼ Specific labelling

Not applicable.

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	UN1950	AEROSOLS	Class: 2 Labels: 2.1 Classification code: 5F 	-	No	Limited quantities: 1 L Tunnel restriction code: (D) See below for additional information.



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
IMDG	UN1950	AEROSOLS	Class: 2 Labels: 2.1 Classification code: 5F 	-	No	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Class: 2 Labels: 2.1 Classification code: 5F 	-	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

▼ **Additional information**

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. ▼ **Special precautions for user**

Not applicable.

14.7. ▼ **Maritime transport in bulk according to IMO instruments**

No data available.

## SECTION 15: Regulatory information

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

▼ **Restrictions for application**

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

▼ **Demands for specific education**

No specific requirements.

▼ **SEVESO - Categories / dangerous substances**

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)

▼ **Additional information**

Not applicable.

▼ **Sources**

The Health and Safety at Work etc. Act 1974 Regulations 2013.

The Aerosol Dispensers Regulations 2009 No. 2824, amended in 2014 (No. 1130) and in 2018 (No. 29).

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### ▼ Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.  
H220, Extremely flammable gas.  
H225, Highly flammable liquid and vapour.  
H280, Contains gas under pressure; may explode if heated.  
H304, May be fatal if swallowed and enters airways.  
H319, Causes serious eye irritation.  
H336, May cause drowsiness or dizziness.

### The full text of identified uses as mentioned in section 1

PC24 = Lubricants, Greases and Release Products

### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### ▼ Additional information

The classification of the mixture in regard to physical hazards has been based on experimental data.

### ▼ The safety data sheet is validated by

MJH

### ▼ Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en