SAFETY DATA SHEET
Rustola Release Spray

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

1.1. Product identifier

Product name Rustola Release Spray

Product number 72401130134, PRO12A, 72474100022, HMTN0401A, HMTN1601A, HMTN0007A

UFI UFI: T5S5-604H-X00Q-XVDM

EU REACH registration notes This is a MIXTURE; no registration information contained in this document. Holts are classed as Downstream User.

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

Identified uses Car maintenance product. Lubricant.

1.3. Details of the supplier of the safety data sheet

Company : JASA AG
Müslistrasse 43
8957 Spreitenbach
Schweiz

info@jasa-ag.ch, www.jasa-ag.ch

Telephone : +41 (0)44 431 60 70
Telefax : +41 (0)44 432 63 17

Responsible Department : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Emergency telephone : Tox Info Suisse (STIZ), Tel: 145

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National emergency telephone number

+43 1 31304 5620; chemikalien@umweltbundesamt.at (Austria)
+32022649636; info@poisoncentre.be (Belgium)
+359 2 9154 409; poison_centre@mail.orbitel.bg (Bulgaria)
+38514686910; toksikologija@hzjz.hr (Croatia)
+35722405611; cy-chemregistry@dli.mlsi.gov.cy (Cyprus)
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+44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Aerosol 1 - H222, H229

Health hazards Eye Dam. 1 - H318 STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms

Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Rustola Release Spray

Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. 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. P261 Avoid breathing spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face 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. P310 Immediately call a POISON CENTER/ doctor. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
UFI	UFI: T5S5-604H-X00Q-XVDM
Contains	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, Sodium dioctyl sulphosuccinate, Ethoxylated nonyl phenol phosphate ester
Detergent labelling	≥ 30% aliphatic hydrocarbons, < 5% anionic surfactants, < 5% aromatic hydrocarbons, < 5% perfumes
Supplementary precautionary statements	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics **25-50%**

CAS number: 64742-48-9 EC number: 919-857-5

Classification
Flam. Liq. 3 - H226
STOT SE 3 - H336
Asp. Tox. 1 - H304

BUTANE **10-25%**

CAS number: 106-97-8 EC number: 203-448-7

Classification
Flam. Gas 1A - H220
Press. Gas

PROPANE **10-25%**

CAS number: 74-98-6 EC number: 200-827-9

Classification
Flam. Gas 1A - H220

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DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U **10-25%**

CAS number: 64742-52-5 EC number: 265-155-0

Classification
Not Classified

ISOBUTANE **5-10%**

CAS number: 75-28-5 EC number: 200-857-2

Classification
Flam. Gas 1A - H220
Press. Gas

Alkanes, C11-15- iso- **1-5%**

CAS number: 90622-58-5 EC number: 292-460-6

Classification
Asp. Tox. 1 - H304

Alkanes, C9-12- iso- **1-5%**

CAS number: 90622-57-4 EC number: 292-459-0

Classification
Flam. Liq. 3 - H226
Asp. Tox. 1 - H304
Aquatic Chronic 4 - H413

Sodium dioctyl sulphosuccinate **1-5%**

CAS number: 577-11-7 EC number: 209-406-4

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318

Ethoxylated nonyl phenol phosphate ester **1-5%**

CAS number: 68412-53-3

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

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Distillates (petroleum) hydrotreated, light, kerosine - unspecified	**1-5%**
CAS number: 64742-47-8	EC number: 265-149-8
Classification Asp. Tox. 1 - H304	

2-BUTOXYETHANOL	**<1%**
CAS number: 111-76-2	EC number: 203-905-0
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	**<1%**
CAS number: 34140-91-5	EC number: 251-846-4
M factor (Acute) = 10	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Not relevant.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation. Product has a defatting effect on skin.

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Eye contact Causes serious eye damage. Prolonged contact causes serious eye and tissue damage.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Extremely flammable. May explode when heated or when exposed to flames or sparks. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. If ventilation is inadequate, suitable respiratory protection must be worn.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Keep away from heat, sparks and open flame. Avoid spilling. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Do not expose to temperatures exceeding 50°C/122°F.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

Rustola Release Spray

8.1. Control parameters

Occupational exposure limits

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Advisory OEL. CEFIC-HSPA : 1200 mg/m3

BUTANE

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m³
Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m³

ISOBUTANE

Long-term exposure limit (8-hour TWA): OES 800 ppm
Short-term exposure limit (15-minute): OES 800 ppm

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³
Short-term exposure limit (15-minute): WEL 50 ppm 246 mg/m³
Sk
WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS: 64742-48-9)

DNEL

Industry - Dermal; Long term : 208 mg/kg/day
Industry - Inhalation; Long term : 871 mg/m³
Consumer - Dermal; Long term : 125 mg/kg/day
Consumer - Inhalation; Long term : 185 mg/m³
Consumer - Oral; Long term : 125 mg/l

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U (CAS: 64742-52-5)

DNEL

Workers - Inhalation; Long term systemic effects: 2.73 mg/m³
Workers - Inhalation; Long term local effects: 5.58 mg/m³
Workers - Dermal; Long term systemic effects: 0.97 mg/kg bw/day
General population - Oral; Long term systemic effects: 0.74 mg/kg bw/day

2-BUTOXYETHANOL (CAS: 111-76-2)

DNEL

Industry - Dermal; Short term : 89 mg/kg/day
Industry - Inhalation; Short term : 663 mg/m³
Industry - Dermal; Long term : 75 mg/kg/day
Industry - Inhalation; Long term : 98 mg/m³
Consumer - Dermal; Short term : 44.5 mg/kg/day
Consumer - Inhalation; Short term : 426 mg/m³
Consumer - Oral; Short term : 13.4 mg/kg/day
Consumer - Dermal; Long term : 38 mg/kg/day
Consumer - Oral; Long term : 3.2 mg/kg/day

PNEC

Fresh water; 8.8 mg/l
marine water; 8.8 mg/l
Sediment; 8.14 mg/kg
Soil; 2.8 mg/kg

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (CAS: 34140-91-5)

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DNEL	Workers - Inhalation; Long term systemic effects: 0.074 mg/m³ Workers - Dermal; Long term systemic effects: 0.01 mg/kg/day
PNEC	Fresh water; Long term 0.276 µg/l marine water; Long term 0.028 µg/l STP; Long term 0.251 mg/l Sediment (Freshwater); Long term 8.6 mg/kg Sediment (Marinewater); Long term 0.86 mg/kg Soil; Long term 10 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Rubber (natural, latex). To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Yellow-white.
Odour	Organic solvents.
Flash point	< 0°C
Relative density	~0.815 @ 20°C
Solubility(ies)	Slightly soluble in water.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.

Rustola Release Spray

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong mineral acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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Aspiration hazard	Not relevant.
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed.
Skin contact	May be slightly irritating to skin. Prolonged or repeated exposure may cause severe irritation. Product has a defatting effect on skin.
Eye contact	Causes serious eye damage. Prolonged contact causes serious eye and tissue damage.
Route of exposure	Inhalation Skin and/or eye contact
Target organs	Skin Eyes Respiratory system, lungs

Toxicological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat
ATE oral (mg/kg)	5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	5,000.0

Acute toxicity - inhalation

Species	Rat
Notes (inhalation LC_{50})	LC50 > 5000 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

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Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	One-generation study - NOAEL >/= 3000 mg/kg bw/day, Oral, Rat P
Reproductive toxicity - development	Developmental toxicity: - NOAEC: >/= 300 ppm, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure	Central and/or peripheral nervous system damage.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

BUTANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat

PROPANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC50 > 5 mg/l, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met.

Respiratory sensitisation

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Respiratory sensitisation	No information available.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
Carcinogenicity	
Carcinogenicity	May cause cancer.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 1000 mg/kg/day, Oral, Rat F0 This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Maternal toxicity: - LOAEL: 125 mg/kg/day, Oral, Rat Teratogenicity: - NOAEL: 2000 mg/kg/day, Oral, Rat No evidence of reproductive toxicity in animal studies.
Specific target organ toxicity - single exposure	
STOT - single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	
Aspiration hazard	Not relevant.

ISOBUTANE

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Alkanes, C11-15- iso-

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

Alkanes, C9-12- iso-

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

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Sodium dioctyl sulphosuccinate

Inhalation	May cause respiratory system irritation.
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach. May cause stomach pain or vomiting.
Skin contact	Irritating to skin. Prolonged or repeated exposure may cause severe irritation.
Eye contact	May cause severe eye irritation.

Distillates (petroleum) hydrotreated, light, kerosine - unspecified

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0

2-BUTOXYETHANOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	1,200.0
Species	Rat
Notes (oral LD_{50})	Harmful if swallowed. LD_{50} 1414 mg/kg, Oral, Guinea pig
ATE oral (mg/kg)	1,200.0

Acute toxicity - dermal

Notes (dermal LD_{50})	Harmful in contact with skin. LC0, NOAEC > 2000 mg/kg, Dermal, Guinea pig

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Harmful if inhaled. LC0 > 3.1 (females); > 3.4 (males) mg/l, Inhalation, Guinea pig

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.

Carcinogenicity

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Carcinogenicity	No evidence of carcinogenicity in animal studies. NOAEC 125 mg/m³, Inhalation, Mouse, Rat
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met. Two-generation study - NOAEL 720 mg/kg/day, Oral, Mouse F0, F1
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction. - NOAEL: 30 (maternal); 100 (developmental) mg/kg/day, Oral, Rat - NOAEL: 350 (matermal); 650 (developmental) mg/kg/day, Oral, Mouse - NOAEL: < 1180 (maternal); < 1180 (developmental) mg/kg/day, Oral, Mouse - NOAEL: 50 (maternal); 100 (developmental) ppm, Inhalation, Rat - NOAEL: 50 (maternal); 100 (developmental) ppm, Inhalation, Rabbit - NOAEL: < 150 (maternal); > 200 (developmental) ppm, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	Not relevant.

Inhalation	Harmful by inhalation.
Ingestion	Harmful if swallowed.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Eye contact	Causes serious eye irritation.

SECTION 12: Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

Ecological information on ingredients.

Sodium dioctyl sulphosuccinate

Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: > 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: > 1000 mg/l, Pseudokirchneriella subcapitata

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Acute toxicity - microorganisms	EL50, 48 hours: 0.95 mg/l, Tetrahymena pyriformis, QSAR

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

Acute aquatic toxicity

Acute toxicity - fish	LL_{50}, 96 hours: 100 mg/l, Pimephales promelas (Fat-head Minnow) NOEL, 96 hours: 100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EL50, 48 hours: > 10000 mg/l, Daphnia magna NOEL, 48 hours: 1000 mg/l, Daphnia magna LL_{50}, 96 hours: > 10000 mg/l, Gammarus pulex NOEL, 96 hours: 10000 mg/l, Gammarus pulex
Acute toxicity - aquatic plants	NOEL, 72 hours: 100 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	NOEL, 4 days: > 1.93 mg/l, Photobacterium phosphoreum luminescence inhibition study Read-across data.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEL, 21 days: 10 mg/l, Daphnia magna

2-BUTOXYETHANOL

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 1474 mg/l, Freshwater fish, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 96 hours: 1250 mg/l, Marinewater fish, Menidia beryllina
Acute toxicity - aquatic invertebrates	EC_{50}, LC_{50}, 72 hours: 690 mg/l, Freshwater invertebrates
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 623 mg/l, Freshwater algae EC10, NOEC, 72 hours: 88 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC10, NOEC, 48 hours: 463 mg/l, Uronema parduczi.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	EC10, LC10, NOEC, 21 days: 100 mg/l, Brachydanio rerio (Zebra Fish)
Chronic toxicity - aquatic invertebrates	EC10, LC10, NOEC, 21 days: 100 mg/l, Freshwater invertebrates

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10

12.2. Persistence and degradability

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Rustola Release Spray

Persistence and degradability Rapidly degradable

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

Persistence and degradability Not readily biodegradable.

2-BUTOXYETHANOL

Persistence and degradability Rapidly degradable

12.3. Bioaccumulative potential

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC; BASEOIL - U

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

2-BUTOXYETHANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

Rustola Release Spray

General As supplied, this product is consigned under the Limited Quantities provisions.

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels

14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

ADN packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Rustola Release Spray

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. EC_{50}: 50% of maximal Effective Concentration. GHS: Globally Harmonized System. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). LOAEC: Lowest Observed Adverse Effect Concentration. LOAEL: Lowest Observed Adverse Effect Level. LOEC: Lowest Observed Effect Concentration. NOAEL: No Observed Adverse Effect Level. NOAEC: No Observed Adverse Effect Concentration. NOEC: No Observed Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. SVHC: Substances of Very High Concern. UVCB - Unknown or variable composition, complex reaction products or Biological materials. vPvB: Very Persistent and Very Bioaccumulative.
Classification procedures according to SI 2019 No. 720	Aerosol 1 - H222, H229: Calculation method. Eye Dam. 1 - H318: Calculation method. STOT SE 3 - H336: Calculation method.
Issued by	Regulatory Specialist
Revision date	20/01/2022
Revision	3
Supersedes date	22/07/2021
SDS number	14467

Rustola Release Spray

Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.