according to Regulation (EC) No. 1907/2006



# **RUST REMOVER - ROST OFF BLACK - 500 ML**

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

1.1 Product identifier

Trade name : RUST REMOVER - ROST OFF BLACK - 500 ML

Product code : 0890200500

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

Use of the Sub- : Lubricant, Corrosion inhibitors, Detergent

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG

Reinhold-Würth-Str. 12-17

74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person

responsible for the SDS

: prodsafe@wuerth.com

### 1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Danger

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Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements : Prevention:

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. P273 Avoid release to the environment.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tem-

peratures exceeding 50 °C/ 122 °F.

### 2.3 Other hazards

May displace oxygen and cause rapid suffocation.

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C11-C14, n-	Not Assigned	Asp. Tox. 1; H304	>= 50 - < 70
alkanes, isoalkanes, cyclics, aro-		Aquatic Chronic 3;	
matics (2-25%)	01-2119458869-15	H412	
Distillates (petroleum), hy-	64742-53-6	Asp. Tox. 1; H304	>= 10 - < 20
drotreated light naphthenic	265-156-6		
	649-466-00-2		
Fatty acids, tall-oil, reaction prod-	68910-93-0	Skin Corr. 1C; H314	>= 0,25 - < 1
ucts with polyethylenepolyamines	272-756-1	Eye Dam. 1; H318	
		STOT SE 3; H335	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
(7) NI NA (I I I I I I I I	440.05.0	H410	0.4 0.05
(Z)-N-Methyl-N-(1-oxo-9-	110-25-8	Acute Tox. 4; H332	>= 0,1 - < 0,25
octadecenyl)glycine	203-749-3	Skin Irrit. 2; H315	
		Eye Dam. 1; H318	
		Aquatic Acute 1;	
Out at a second the second selection of the	aa. linait	H400	
Substances with a workplace exposure limit :			
Carbon dioxide	124-38-9	Press. Gas Liquefied	>= 1 - < 10
	204-696-9	gas; H280	

For explanation of abbreviations see section 16.

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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Protection of first-aiders : No special precautions are necessary for first aid responders.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

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

Risks : Repeated exposure may cause skin dryness or cracking.

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

Treatment : Treat symptomatically and supportively.

### **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

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

Specific hazards during fire-

fighting

Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Hazardous combustion prod: :

ucts

Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-

according to Regulation (EC) No. 1907/2006



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for firefighters essary. Use personal protective equipment.

Specific extinguishing meth-

ahc

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Remove all sources of ignition.

Follow safe handling advice and personal protective equip-

ment recommendations.

#### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

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

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

according to Regulation (EC) No. 1907/2006



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CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Do not get on skin or clothing.

Avoid contact with eyes.

Handle in accordance with good industrial hygiene and safety

practice.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Do not spray on an open flame or other ignition source.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

Requirements for storage areas and containers

: Keep in a cool, well-ventilated place. Store in accordance with

the particular national regulations. Do not pierce or burn, even

after use. Keep cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:

Self-reactive substances and mixtures

Organic peroxides Oxidizing agents Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

**Explosives** 

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

Recommended storage tem-

perature

< 50 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

**Occupational Exposure Limits** 

according to Regulation (EC) No. 1907/2006



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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Butane	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Propane	74-98-6	AGW	1.000 ppm 1.800 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Carbon dioxide	124-38-9	TWA	5.000 ppm 9.000 mg/m3	2006/15/EC
Further information	Indicative			
		AGW	5.000 ppm 9.100 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible)			

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
(Z)-N-Methyl-N-(1- oxo-9- octadecenyl)glycine	Workers	Inhalation	Long-term systemic effects	0,2 mg/m3
	Workers	Inhalation	Acute systemic effects	18 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,01 mg/m3
	Workers	Inhalation	Acute local effects	18 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	100 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,1 mg/m3
	Consumers	Inhalation	Acute systemic effects	9 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	5 μg/m3
	Consumers	Inhalation	Acute local effects	9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg bw/day

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Consumers	Skin contact	Acute systemic effects	50 mg/kg bw/day
Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day
Consumers	Ingestion	Acute systemic ef- fects	92 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Distillates (petroleum), hy-	Oral (Secondary Poisoning) 9,33 mg/k	
drotreated light naphthenic		
Distillates (petroleum), hy-	Oral (Secondary Poisoning)	9,33 mg/kg food
drotreated heavy paraffinic		
(Z)-N-Methyl-N-(1-oxo-9-	Fresh water sediment	0,43 μg/l
octadecenyl)glycine		
	Marine sediment	0,043 μg/l
	Intermittent use/release	4,3 µg/l
	Sewage treatment plant	13 mg/l

#### 8.2 Exposure controls

### **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:

Safety glasses

Hand protection

Material : Nitrile rubber
Break through time : <= 480 min
Glove thickness : 0,35 mm

Material : Fluorinated rubber

Break through time :  $\leq$  480 min Glove thickness : 0,4 mm

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Wear the following personal protective equipment:

Flame retardant antistatic protective clothing.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Self-contained breathing apparatus

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# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Propellant : Butane, Propane, Isobutane

Colour : dark grey

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 0,83 g/cm3 (20 °C)

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

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Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size : Not applicable

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.

Vapours may form explosive mixture with air.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure Skin contact

Ingestion Eye contact

#### **Acute toxicity**

Not classified based on available information.

#### Components:

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Acute oral toxicity : LD50 (Rat): > 15.000 mg/kg

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Acute dermal toxicity : LD50 (Rat): > 3.400 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Distillates (petroleum), hydrotreated light naphthenic:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Remarks: Based on data from similar materials

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,01 - 1,85 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Carbon dioxide:

Acute inhalation toxicity : LC50 (Rat): 58750 ppm

Exposure time: 4 h Test atmosphere: gas

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

**Components:** 

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit

according to Regulation (EC) No. 1907/2006



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Result: No skin irritation

### Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Species: Rabbit

Result: Corrosive after 1 to 4 hours of exposure Remarks: Based on data from similar materials

### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

### **Components:**

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

### Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit

Result: No eye irritation

# Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Result: Irreversible effects on the eye Remarks: Based on skin corrosivity.

#### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Species: Rabbit

Result: Irreversible effects on the eye

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.

### Components:

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

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### Distillates (petroleum), hydrotreated light naphthenic:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

#### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

: Test Type: Chromosome aberration test in vitro

Result: negative

### Distillates (petroleum), hydrotreated light naphthenic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

### Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

according to Regulation (EC) No. 1907/2006



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### Carcinogenicity

Not classified based on available information.

#### Components:

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat

Application Route: inhalation (vapour)

Exposure time: 105 weeks

Result: negative

Remarks: Based on data from similar materials

### Distillates (petroleum), hydrotreated light naphthenic:

Species: Mouse

Application Route: Skin contact Exposure time: 78 weeks

Result: negative

Carcinogenicity - Assess-

: Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L) ment

Reproductive toxicity

Not classified based on available information.

### **Components:**

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Test Type: Two-generation reproduction toxicity study Effects on fertility

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

# Distillates (petroleum), hydrotreated light naphthenic:

Effects on fertility Test Type: Reproduction/Developmental toxicity screening

Species: Rat

**Application Route: Ingestion** 

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Skin contact

Result: negative

#### Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Effects on fertility Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

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> Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

Effects on foetal develop-

ment

Test Type: Combined repeated dose toxicity study with the

reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 422

Result: negative

### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 421

Result: negative

Effects on foetal develop-

ment

Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 421

Result: negative

### STOT - single exposure

Not classified based on available information.

### **Components:**

### Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Assessment: May cause respiratory irritation.

#### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### **Components:**

# Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat NOAEL: 3,9 mg/l

Application Route: inhalation (vapour)

Exposure time: 90 Days

Method: OECD Test Guideline 413

#### Distillates (petroleum), hydrotreated light naphthenic:

Species: Rabbit NOAEL: 1.000 mg/kg

Application Route: Skin contact

according to Regulation (EC) No. 1907/2006



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Exposure time: 4 Weeks

Method: OECD Test Guideline 410

# Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Species: Rat

NOAEL: 300 mg/kg

**Application Route: Ingestion** Exposure time: 28 Days

#### (Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Species: Rat

NOAEL: > 0.06 mg/l

Application Route: inhalation (dust/mist/fume)

Exposure time: 28 Days

Method: OECD Test Guideline 412

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Distillates (petroleum), hydrotreated light naphthenic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### **SECTION 12: Ecological information**

# 12.1 Toxicity

### **Components:**

#### Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 100 - 200 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae EL50 (Pseudokirchneriella subcapitata (green algae)): 5,5

mg/l

according to Regulation (EC) No. 1907/2006



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Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)): 0,76

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

EL10: 0,316 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Distillates (petroleum), hydrotreated light naphthenic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10.000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Toxicity to microorganisms : NOEC (Photobacterium phosphoreum): > 2,17 mg/l

Exposure time: 4 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,43 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,48 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,638

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,395

mg/l

according to Regulation (EC) No. 1907/2006



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Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

M-Factor (Acute aquatic tox- : 1

icity)

Toxicity to microorganisms EC10: 24 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,32 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)): 9,3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,43 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

EC50 (Desmodesmus subspicatus (green algae)): 6,3 mg/l Toxicity to algae

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

NOEC: 10 mg/l Toxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

Carbon dioxide:

Toxicity to fish NOEC (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

NOEC (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

12.2 Persistence and degradability

**Components:** 

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Biodegradability Result: Readily biodegradable.

Biodegradation: 74,7 %

according to Regulation (EC) No. 1907/2006



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Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

Distillates (petroleum), hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 2 - 8 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Fatty acids, tall-oil, reaction products with polyethylenepolyamines:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 36 % Exposure time: 28 d

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 85,2 % Exposure time: 28 d

Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

**Components:** 

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine:

Partition coefficient: n-

octanol/water

: log Pow: 3,5 - 4,2

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Empty containers retain residue and can be dangerous.

according to Regulation (EC) No. 1907/2006



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Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. Please ensure aerosol cans are sprayed completely empty

(including propellant)

Waste Code : The following Waste Codes are only suggestions:

used product

160504, gases in pressure containers (including halons) con-

taining dangerous substances

unused product

160504, gases in pressure containers (including halons) con-

taining dangerous substances

uncleaned packagings

150110, packaging containing residues of or contaminated by

dangerous substances

# **SECTION 14: Transport information**

### 14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

### 14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

IATA : Aerosols, flammable

### 14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

### 14.4 Packing group

according to Regulation (EC) No. 1907/2006



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ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

**ADR** 

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

**IMDG** 

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen- : 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : no

**ADR** 

Environmentally hazardous : no

rid

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



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### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a	FLAMMABLE AEROSOLS	Quantity 1 150 t	Quantity 2 500 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alterna-	2.500 t	25.000 t

tive fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in

points (a) to (d)

18 Liquefied extremely flam-50 t 200 t

> mable gases (including LPG) and natural gas

Water contaminating class

(Germany)

WGK 2 water endangering

Classification according VwVwS, Annex 4.

Directive 2010/75/EU of 24 November 2010 on industrial Volatile organic compounds

> emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 80,19 %

according to Regulation (EC) No. 1907/2006



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Regulation (EC) No. : 30 % and more: Aromatic hydrocarbons, Aliphatic hydrocar-

648/2004, as amended bons

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H280 : Contains gas under pressure; may explode if heated.

H304 : May be fatal if swallowed and enters airways. H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute: Acute aquatic toxicityAquatic Chronic: Chronic aquatic toxicityAsp. Tox.: Aspiration hazardEye Dam.: Serious eye damagePress. Gas: Gases under pressure

Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure 2006/15/EC : Europe. Indicative occupational exposure limit values DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

2006/15/EC / TWA : Limit Value - eight hours DE TRGS 900 / AGW : Time Weighted Average

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentra-

according to Regulation (EC) No. 1907/2006



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tion; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Sources of key data used to compile the Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

#### Classification of the mixture:

#### Classification procedure:

Aerosol 1 H222, H229 Based on product data or assessment

Aquatic Chronic 3 H412 Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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