

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier:****Identification as on the label/Trade name:** Flash Rust Remover**Product number:** KC-10.10.051.06, KC-10.10.050.32, KC-10.10.050.33, KC-10.10.050.34**EAN:** 8682729303727, 8682729303352, 8682729303369, 8682729303376**1.2 Relevant identification uses of the substance and uses advised against:****Identified uses:** to clean the flash rust on the surface**Uses advised against:** No other uses are advised.**1.3 Details of the Supplier of the Safety Data Sheet:**KOCHMAIER  
Minervastr. 36  
74613 Öhringen  
+49-170-290-6038**1.4 Emergency telephone numbers:**24-hour Emergency Contact:  
+49-170-290-6038**Section 2: Hazards Identification****2.1 Classification of the substance or mixture:****2.1.1 The mixture is classified according to:** Regulation EC 1272/2008 [EU-GHS/CLP]**Hazard classes/Hazard categories:**

Skin irritation, Category 2

Eye irritation, Category 2

Acute toxicity, chronic, Category 4

**2.1.2 Additional information:**

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**2.2 Label elements:****Hazard pictogram(s):****Signal word:** Warning**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statements:**

P260 Do not breathe dusts or mists.

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes. P280 Wear protective gloves/protective clothing/eye protection.

**Response**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 Get emergency medical help immediately. P363 Wash contaminated clothing before reuse.

P321 Specific treatment (see supplemental first aid instruction on this label)

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents/container to in accordance with local/national regulations.

**2.3 Other hazards:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Ecological information:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Toxicological information:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Section 3: Composition/Information on Ingredients****3.1 Substance:** Not applicable.**3.2 Mixture:**

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
9-Octadecenoic acid	112-80-1	50%	-	
	204-007-1			

No components need to be disclosed according to the applicable regulations

For full text of H-statements, see Section 16.

**Section 4: First-Aid Measures**

**4.1 Description of first aid measures:**

**If inhaled:** After inhalation: fresh air.

**In case of skin contact:** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**In case of eye contact:** After eye contact: rinse out with plenty of water. Remove contact lenses.

**If swallowed:** After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

**4.2 Most important symptoms and effects, both acute and delayed:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed:**

No data available

**Section 5: Fire-Fighting Measures****5.1 Extinguisher media:**

**Suitable extinguisher media:** Carbon dioxide (CO<sub>2</sub>) Foam Dry powder

**Unsuitable extinguishing media:** For this substance no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the mixture:**

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

**5.3 Recommendations for firefighting personnel:**

In the event of fire, wear self-contained breathing apparatus.

**5.4 Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6: Accidental Release Measures****6.1 Personal precautions, protective equipment and emergency procedures:**

**Advice for non-emergency personnel:** Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

**Advice for emergency personnel:** For personal protection see section 8.

**6.2 Environmental precautions:**

Do not let product enter drains.

**6.3 Methods for containment and cleaning up:**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material. Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

For disposal see section 13.

## Section 7: Handling and Storage

### **7.1 Precautions for safe handling:**

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including incompatibilities:**

#### **Storage conditions**

Tightly closed.

Recommended storage temperature see product label.

#### **Storage stability**

Recommended storage temperature

-20 °C

Air and light sensitive.

#### **Storage class**

Storage class (TRGS 510): 10: Combustible liquids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## Section 8: Exposure Controls and Personal Protection

### **8.1 Control parameters:**

**Occupational exposure limits:** Ingredients with workplace control parameters.

### **8.2 Exposure controls:**

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### **Respiratory protection**

Not required; except in case of aerosol formation..

#### **Control of environmental exposure**

Do not let product enter drains.

## Section 9: Physical and Chemical Properties

### **9.1 Information on basic physical and chemical properties:**

**Physical state:** liquid, clear

**Colour:** colorless

**Odour and odour threshold:** No data available

**pH (concentration):** No data available

**Melting point/range (°C):** Melting point/range: 13 - 14 °C - lit.

**Boiling point/range (°C):** 194 - 195 °C at 1,6 hPa – lit.

**Flash point (°C):** > 113 °C - closed cup

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Upper/lower flammability/explosive limits:** No data available

**Vapour pressure:** 1,333 hPa at 176 °C

**Vapour density:** 0,89 g/cm<sup>3</sup> at 25 °C - lit  
**Relative density (20 °C):** No data available.  
**Water solubility:** 1.000 g/l at 25 °C miscible  
**Solubility in other solvents:** No data available.  
**n-Octanol/Water partition coefficient:** No data available.  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity, dynamic (mPa.s):** Viscosity, kinematic: No data available  
Viscosity, dynamic: No data available

## **9.2 Other data:**

### **9.2.1 Additional information:**

**Volatile organic compounds:** No data available.  
**Miscibility:** No data available.  
**Conductivity:** No data available.  
**Evaporation rate:** No data available.  
**Viscosity:** No data available.  
**Oxidising properties:** No data available.  
**Liposolubility:** No data available.  
**Characteristic properties of substance groups peroxides:** No data available.

### **9.2.2 Other safety characteristics:**

**Surface tension:** No data available.  
**Relative vapor density :** No data available.

**Section 10: Stability and Reactivity**

**10.1 Reactivity:** No data available.

**10.2 Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions:**

**Violent reactions possible with:**

Oxidizing agents  
perchloric acid

**Risk of explosion with:**

Aluminum

**10.4 Conditions to avoid:** Air sensitive.no information available

**10.5 Incompatible materials:** No data available.

**10.6 Hazardous decomposition products:** In the event of fire: see section 5.

**Section 11: Toxicological Information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

**Acute toxicity:**

LD50 Oral - Rat - 25.000 mg/kg

Remarks: (RTECS)

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation:**

Skin - Rabbit

Result: No skin irritation

Remarks: (External MSDS)

**Serious eye damage/irritation:**

Eyes - Rabbit

Result: No eye irritation - 7 Days

Remarks: (External MSDS).

**Respiratory or skin sensitization:**

No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** No data available

**STOT-single exposure:** No data available

**STOT-repeated exposure:** No data available

**Aspiration hazard:** No data available

**11.2 Information regarding other hazard classes which relates to endocrine disrupting properties:**

**Endocrine disrupting properties:**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

RTECS: RG2275000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

### 12.1 Toxicity:

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 205 mg/l - 96 h Remarks: (ECOTOX Database)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia - > 2,8 mg/l - 48 h (OECD Test Guideline 202) Remarks: (above the solubility limit in the test medium)

**12.2 Persistence and degradability:** No data available.

**12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No data available.

**12.5 Results of PBT& vPvB assessment:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

### 12.6 Endocrine disrupting properties:

Assessment	:The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher
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**12.7 Other adverse effects:** No data available.

## Section 13: Disposal Considerations

### 13.1 Waste treatment methods:

#### Product

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

**Section 14: Transport Information****14.1 UN number:**

ADR/RID: -                   IMDG: -                   IATA: -

**14.2 UN proper shipping name:**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods.

**14.3 Transport hazard class:**

ADR/RID: -                   IMDG: -                   IATA: -

**14.4 Packing group:**

ADR/RID: -                   IMDG: -                   IATA: -

**14.5 Environmental hazards:**

ADR/RID: -                   IMDG Marine pollutant: no                   IATA: no

**14.6 Special precautions for user:** No data available**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable.**Section 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation for the mixture:**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical Safety Assessment carried out:**

For this product a chemical safety assessment was not carried out.

**Section 16: Other Information**

**Indication of changes:** First version.

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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 concentration; 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Main bibliographical sources:**

The results of toxicological studies or their suppliers.

ECHA website, GESTIS website (international exposure limit values), ACGIH (TLV and Bet).

**Notice to readers:**

The information detailed here is based on our knowledge up to the date indicated above. Refers exclusively to the product indicated and does not constitute a guarantee of particular qualities. The user must ensure the suitability and accuracy of said information in relation to the specific use to be made of the product.

**List of abbreviations:**

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ALARA As Low As Is Reasonably Achievable

AMU Atomic Mass Unit

ANSI American National Standards Institute

CAM Continuous Air Monitor

CAS Chemical Abstracts Service (division of the American Chemical Society)

CEN European Committee for Standardization

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CLP Classification, Labelling and Packaging (European Union)

CPR Controlled Products Regulations (Canada)

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOT United States Department of Transportation (USA)

DSL Domestic Substances List (Canada)

EC50 Half Maximal Effective Concentration

EINECS European Inventory of Existing Commercial Chemical Substances

EHS Environmentally Hazardous Substance

ELINCS European List of Notified Chemical Substances

EMS Emergency Response Procedures for Ships Carrying Dangerous Goods

EPA Environmental Protection Agency (USA)

EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986

GHS Globally Harmonized System

HMIS Hazardous Materials Identification System (USA)

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Containers

ICAO International Civil Aviation Organization

IDLH Immediately Dangerous to Life or Health

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

LDLO Lethal Dose Low

LOEC Lowest-Observed-Effective Concentration

MARPOL International Convention for the Prevention of Pollution from Ships

MSHA Mine Safety and Health Administration (USA)

Safety Data Sheet (SDS) for Flash Rust Remover

NCRP National Council on Radiation Protection & Measurements (USA)  
NDSL Non-Domestic Substances List (Canada)  
NFPA National Fire Protection Association (USA)  
NIOSH National Institute for Occupational Safety and Health (USA)  
NOEC No Observed Effect Concentration  
N.O.S. Not Otherwise Specified  
NRC Nuclear Regulatory Commission (USA)  
NTP National Toxicology Program (USA)  
OSHA Occupational Safety and Health Administration (USA)  
PBT Persistent Bioaccumulative and Toxic Chemical  
PEL Permissible Exposure Limit  
PIH Poisonous by Inhalation Hazard  
RCRA Resource Conservation and Recovery Act (USA)  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)  
RID Regulations Concerning the International Transport of Dangerous Goods by Rail  
RTECS Registry of Toxic Effects of Chemical Substances  
SARA Superfund Amendments and Reauthorization Act (USA)  
TDG Transportation of Dangerous Goods (Canada)  
TIH Toxic by Inhalation Hazard  
TLV Threshold Limit Value  
TPQ Threshold Planning Quantity  
TSCA Toxic Substances Control Act  
TWA Time Weighted Average  
UN United Nations (Number)  
VOC Volatile Organic Compound  
vPvB Very Persistent Very Bioaccumulative Chemical  
WHMIS Workplace Hazardous Materials Information System