

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 04.04.2016

Version: 2.00

Revision: 04.04.2016

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

· **1.1 Product identifier**

· Trade name: **Re-Move**

· **Article number:**

70-31415-00 (300 ml)

70-31415-10 (100 ml)

· **Registration number:**

This substance has (All substances contained in this mixture have) been pre-registered according to regulation (EC) No. 1907/2006 in its current version.

· **1.2 Relevant identified uses of the substance or mixture and uses advised against: -**

· **Application of the substance / the preparation:** Cleaning agent / Cleaner

· **Uses advised against -**

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier/Manufacturer:**

Reinz-Dichtungs-GmbH

Reinzstr. 3-7

D-89233 Neu-Ulm

Germany

Tel.: +49-(0)731-7046-0

· **Email competent person:** Email: sdb.qus@dana.com

· **Information department:** Department ASU

· **1.4 Emergency telephone number:**

National Poison Information Service (NPIS)

24 hour national number professionals only

0844 892 0111

National Health Service (NHS)

24 hour national number consumer

England and Scotland: 111

Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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

· **Information concerning particular hazards for human and environment:**

Based on the classification criteria for mixtures according to Regulation (EC) No. 1272/2008, the mixture is subject to labelling.

Warning! Pressurised container.

· **Classification system:**

The classification is based on Regulation (EC) 1272/2008 including its amendments, and on company information.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

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- Hazard pictograms



GHS02

- Signal word Danger

- Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

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

P501 Dispose of contents/container to a hazardous or special waste collection point.

- Special labelling of certain preparations:

The requirements of the current version of directive 75/324/EEC for aerosols have to be observed.

- Other notes: Further labelling requirements of EC regulation 648/2004/EC annex VII have to be observed.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable

- vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 109-87-5	dimethoxymethane	50-70%
EINECS: 203-714-2	Flam. Liq. 2, H225	
CAS: 106-97-8	butane, pure	10-20%
EINECS: 203-448-7	Flam. Gas 1, H220; Press. Gas C, H280	
Index number: 601-004-00-0		
CAS: 74-98-6	propane	1-<10%
EINECS: 200-827-9	Flam. Gas 1, H220; Press. Gas C, H280	
Index number: 601-003-00-5		
CAS: 75-28-5	isobutane	1-<10%
EINECS: 200-857-2	Flam. Gas 1, H220; Press. Gas C, H280	
Index number: 601-004-01-8		

- Regulation (EC) No 648/2004 on detergents / Labelling for contents:

aliphatic hydrocarbons	≥ 30%
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- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General information:

If symptoms persist or in case of doubt, seek medical advice.

On direct contact with gas escaping from compressed gas cylinders, frostbites are possible.

- After inhalation: Supply fresh air; consult a doctor in case of pain.

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- **After skin contact:**
Immediately rinse with water.
If symptoms persist, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.
- **After swallowing:**
Rather unlikely if used appropriately.
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** Frost bites
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**



CO₂, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Vapours are heavier than air.

Vapours spread on the ground to a distant ignition source and flash back.

Can form explosive gas-air mixtures.

Carbon monoxide (CO)

- **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information:**

Heating leads to increased pressure and danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone.

Seal off area and allow fire to burn out.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

Move uninvolved persons towards the weather side (windward); remove all ignition sources.

Do not breathe vapors and mists.

Keep away from ignition sources

- **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

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

Ensure adequate ventilation.

Allow to evaporate.

Do not flush with water or aqueous cleansing agents

Make sure to recycle or dispose of in suitable receptacles.

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· **6.4 Reference to other sections**

- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Avoid contact with eyes and skin.
- Do not breathe aerosol or vapors.

· **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on flames or any incandescent material.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

- Store in a cool location.
- Observe official regulations on storing packagings with pressurised containers.
- Unsuitable container material:
Various plastics

· **Information about storage in one common storage facility:**

- Store away from foodstuffs.
- Store away from feed.
- Do not store with oxygen bottles.
- Store away from strong oxidizers.
- Refer to national regulations for storing hazardous chemicals.

· **Further information about storage conditions:**

- Keep receptacle tightly sealed.
- Do not seal receptacle gas-tight.
- Store under cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Avoid temperatures above 50 °C.

· **Storage class:** 2B: Aerosol dispensers and lighters

· **7.3 Specific end use(s)** Follow the directions!

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:**

- Mechanical ventilation/exhaustion is strongly recommended.
- No further data; see section 7.

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

109-87-5 dimethoxymethane

- WEL (Great Britain) Short-term value: 3950 mg/m³, 1250 ppm
- Long-term value: 3160 mg/m³, 1000 ppm

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106-97-8 butane, pure

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Avoid contact with eyes and skin.

Wash hands before breaks and at the end of work.

The following instructions regarding the protective equipment refer to the industrial use of larger quantities.

Do not inhale gases/fumes/aerosols.

· **Breathing equipment:**



In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air.

Filter AX (colour coding brown; DIN EN 141)

· **Protection of hands:**

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

To avoid skin problems reduce the wearing of gloves to the required minimum.

· **Material of gloves:**

Butyl rubber, BR

Protective index ≤ 4

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information:**

· **Appearance:**

Form:	Aerosol
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined

· **pH-value:** Not applicable

· **Change in condition:**

Melting point/Melting range:	Not applicable, as pressurized gas container
Boiling point/Boiling range:	Not applicable, as aerosol

· **Flash point:** - 60 °C

· **Flammability (solid, gaseous):** Not applicable

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· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined
· Self ignition temperature:	Product is not self-igniting.
· Danger of explosion:	Aerosol Pressurized container Do not pierce.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	17.6 Vol %
· Oxidizing properties:	Not determined
· Vapour pressure at 20 °C:	2200 hPa
· Density at 20 °C:	0.74 g/cm ³
· Relative density:	Not determined
· Vapour density:	Not determined
· Evaporation rate:	Not applicable
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
· 9.2 Other information	VOC: (EU) 98.46

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixtures with air.
- **10.4 Conditions to avoid**
Temperatures > 50 °C
Heat
- **10.5 Incompatible materials:** Strong oxidants
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Frostbites depending on the time of exposition
- **Serious eye damage/irritation** Tissue damage because of frostbite is possible.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **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.

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- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
 According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Danger to drinking water is possible if large quantities leak into the ground or into water course.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
 Disposal according to instructions of local authorities
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue:**
 16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
 16 05 00 gases in pressure containers and discarded chemicals
 16 05 04* gases in pressure containers (including halons) containing hazardous substances
 15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
 15 01 00 packaging (including separately collected municipal packaging waste)
 15 01 10* packaging containing residues of or contaminated by hazardous substances
- **Uncleaned packagings:**
- **Recommendation:**
 Disposal must be made according to official regulations.
 Empty containers may contain harmful, ignitable/flammable or explosive residues and vapours. Do not cut, grind, puncture, weld on, reuse or dispose of containers until appropriate safety measures have been taken. Do not remove labels until containers have been cleaned.

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1950 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | 1950 AEROSOLS
AEROSOLS
AEROSOLS, flammable |

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· 14.3 Transport hazard class(es)	
· ADR	
	
· Class	2 5F Gases
· Label	2.1
· IMDG, IATA	
	
· Class	2.1
· Label	2.1
· 14.4 Packing group	
· ADR, IMDG, IATA	
Void	
· 14.5 Environmental hazards:	
· Marine pollutant:	
No	
· 14.6 Special precautions for user	
· Danger code (Kemler):	
· EMS Number:	
· Stowage Code	
· Segregation Code	
Warning: Gases - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.	
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable	
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ):	
· Excepted quantities (EQ)	
· Transport category:	
· Tunnel restriction code:	
1L Code: E0 Not permitted as Excepted Quantity 2 D	
· IMDG	
· Limited quantities (LQ)	
· Excepted quantities (EQ)	
1L Code: E0 Not permitted as Excepted Quantity	
· IATA	

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· Remarks:	Packing Instructions: For Limited Quantities: Y203(Max Net Qty/Pkg: 30 kg G) Passenger and Cargo Aircraft: 203 (Max Net Qty/Pkg: 75 kg) Cargo Aircraft only: 203 (Max Net Qty/Pkg: 150 kg)
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **Information about limitation of use:** Take note of Directive 94/33/EC on the protection of young people at work.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Other regulations, limitations and prohibitive regulations:** REACH regulation (EC) 552/2009 Annex XVII
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:** Version/s 1 is/are not available in this language.
- **Relevant phrases**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
- **Classification according to Regulation (EC) No 1272/2008** Aerosol 1 based on test data
- **Department issuing SDS:** Department ASU (Occupational safety & environmental protection)
- **Contact:** Department ASU
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
SVHC: Substances of Very High Concern
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
- **Sources:** MSDS of the supplier
- *** Data compared to the previous version altered.**
Changes have been made to sections marked with a *, as compared to the previous version.