



SAFETY DATA SHEET

X1 eXcellent Heavy Duty cleaner - degreaser

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- Product name and/or code** : X1 eXcellent Heavy Duty cleaner - degreaser
- Manufacturer** : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenbergstraat 23, B-3545 Zelem, Belgium
- Emergency phone number** : Rust-Oleum: +31(0)165-593636; Fax +31(0)165-593600
Martin Mathys: +32(0)13-460200; Fax +32(0)13-460201
- e-Mail address of person responsible for this SDS** : rpmeurohas@ro-m.com
- Product use** : Cleaning solutions. Industrial cleaners.

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

- Classification** : F+; R12
- Physical/chemical hazards** : Extremely flammable.
- Additional hazards** : Defatting to the skin.
- Additional warning phrases** : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	CAS #	%	EU no.	Classification
kerosine (petroleum)	8008-20-6	50 - 75	232-366-4	Xn; R65 [1]
butane	106-97-8	10 - 25	203-448-7	F+; R12 [2]
alcohols, C6-12, ethoxylated	68439-45-2	1 - 2.5		Xn; R22 [1] Xi; R41
See Section 16 for the full text of the R-phrases declared above.				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

First aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see Section 8).
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Ingredient name

butane

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007).
STEL: 1810 mg/m³ 15 minute(s).
STEL: 750 ppm 15 minute(s).
TWA: 1450 mg/m³ 8 hour(s).
TWA: 600 ppm 8 hour(s).

Exposure controls/personal protection

- Occupational exposure controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Recommended: organic vapor (Type A) and particulate filter (EN 140) .
- Hand protection** : >8 hours (breakthrough time): gloves , neoprene (EN 374) .
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Eye protection** : Recommended: safety glasses with side-shields (EN 166) .

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin protection	: Recommended: overall .
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid. [Compressed gas]
Odor	: Solvent-like.
Color	: Colorless.
Flash point	: Closed cup: -70°C (-94°F)
Explosion limits	: Lower: 3% Upper: 18%
Vapor pressure	: 3000 mmHg
Vapor density	: >1 [Air = 1]
Evaporation rate (BuAc=1)	: >1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
kerosine (petroleum)	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	15 g/kg	-
	LC50 Inhalation Vapor	Rat	>5000 mg/m ³	4 hours
isobutane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
	LC50 Inhalation Gas.	Rat	57 pph	15 minutes
	LC50 Inhalation Gas.	Rat	570000 ppm	15 minutes
butane	LCLo Inhalation Gas.	Rat	1041000 mg/m ³	2 hours
	LC50 Inhalation Gas.	Rat	658 g/m ³	4 hours
propane	LC50 Inhalation Gas.	Rat	>800000 ppm	15 minutes

12. ECOLOGICAL INFORMATION

There are no data available on the preparation itself. Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Ecological information**Biodegradability**

Conclusion/Remark : Not available.

Bioaccumulative potential

Ingredient name	LogP _{ow}	BCF	Potential
isobutane	2.8	-	low
butane	2.89	-	low
propane	2.36	-	low

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.


European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 13 02 08* other engine, gear and lubricating oils.
If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

Hazardous waste : Yes.

14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	1950	AEROSOLS, flammable Limited quantity	2	-		Hazard identification number 23 Limited quantity LQ2 Tunnel code D Remarks Limited Quantity - ADR/IMDG 3.4
IMDG Class	1950	AEROSOLS, flammable Limited quantity	2.1	-		Emergency schedules (EmS) F-D, S-U Remarks Limited Quantity - ADR/IMDG 3.4
IATA Class	1950	AEROSOLS, flammable	2.1	-		Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203

PG* : Packing group

15. REGULATORY INFORMATION

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:

Hazard symbol or symbols :



Highly flammable

Risk phrases : R12- Extremely flammable.

Safety phrases : S23- Do not breathe vapor or spray.
S51- Use only in well-ventilated areas.

Europe inventory : Not determined.

Other EU regulations

Additional warning phrases : Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

CN code : 3402 90 90

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R12- Extremely flammable.
 R22- Harmful if swallowed.
 R65- Harmful: may cause lung damage if swallowed.
 R41- Risk of serious damage to eyes.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

✔ Indicates information that has changed from previously issued version.

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



Version	0.02	v.4.0.	<i>Page: 5/5</i>
Date of issue	13-01-2012.		<i>Printed 13-01-2012.</i>