Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



SAFETY DATA SHEET

X1 eXcellent Ceramic Anti Seize spray

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

1.1 Product identifier

Product name : X1 eXcellent Ceramic Anti Seize spray

Product description : Metal lubricant.

Product type : Aerosol.

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

Not applicable.

1.3 Details of the supplier of the safety data sheet

Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium

Telephone no.: +32 (0) 13 460 200

Fax no.: +32 (0) 13 460 201

responsible for this SDS

e-mail address of person

: rpmeurohas@ro-m.com

1.4 Emergency telephone number

Telephone number : +44 (0) 207 858 1228

Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Aerosol 1, H222 Skin Irrit. 2, H315 Aquatic Chronic 3, H412

Classification according to Directive 1999/45/EC [DPD]

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

Classification : F+; R12

R52/53

Physical/chemical

hazards

: Extremely flammable.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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X1 eXcellent Ceramic Anti Seize spray

SECTION 2: Hazards identification

Hazard pictograms





Signal word : Danger

Hazard statements : Extremely flammable aerosol.

Causes skin irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements

General: Read label before use. If medical advice is needed: Have product container or label

at hand.

Prevention : Do not spray on an open flame or other ignition source. Wear protective gloves and

eye protection: gloves: natural rubber (latex) or nitrile rubber, safety glasses with

side-shields. Avoid release to the environment.

Response : IF ON SKIN: Wash with plenty of soap and water.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label

elements

: Pressurized container: may burst if heated. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or

burn, even after use. Protect from sunlight and do not expose to temperatures

exceeding 50 °C. Keep out of reach of children.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

: Mixture

Substance/mixture

| | | | Class | | |
|-----------------------------|---|-------------|------------------------------|--|---------|
| Product/ingredient name | Identifiers | % | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | Туре |
| | EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6 | 50 - <75 | F+; R12 | Flam. Gas 1, H220 | [2] |
| (petroleum) | REACH #: 01-2119487078-27 EC: 232-455-8 CAS: 8042-47-5 | 15 - <20 | Not classified. | Not classified. | [2] |
| 11.7 41. 5 5 41. 5 5 1. 6 7 | REACH #: 01-2119471305-42 EC: 292-458-5 | 10 - <15 | F; R11 Xn; R65 Xi; R38 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | CAS: 90622-56-3 | | R67 N; R51/53 | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | | | | |
|--|-----------------|--|---|--|--|--|--|--|
| | | | See Section 16 for the full text of the R- phrases declared above. | See Section 16 for the full text of the H statements 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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of 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. If unconscious, place in recovery |

position and seek medical advice.

| Eye contact | : | Chec | k fo | r and | remove | any | / contact | lenses. | Immedia | itely | flush | eyes with | running |
|-------------|---|------|------|-------|--------|-----|-----------|---------|---------|-------|-------|-----------|---------|
| | | | - | | | | | | | _ | | | |

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

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.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 mixture 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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

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SECTION 4: First aid measures

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Additional information

: Pressurized container: may burst if heated. Bursting aerosol containers may be propelled from a fire at high speed. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: 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). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour 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.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

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 mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

: Not available.

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---------------------------------|--|
| liquefied petroleum gas | EH40/2005 WELs (United Kingdom (UK), 12/2011). |
| | STEL: 2180 mg/m³ 15 minutes. |
| | STEL: 1250 ppm 15 minutes. |
| | TWA: 1750 mg/m³ 8 hours. |
| | TWA: 1000 ppm 8 hours. |
| white mineral oil (petroleum) | CEFIC-ESIG (Europe, 2011). Notes: Recommended by |
| , , | manufacturer |
| | TWA: 5 mg/m ³ 8 hours. Form: Mist |
| | STEL: 10 mg/m³ 15 minutes. Form: Mist |
| hydrocarbons, isoalkanes, C7-C9 | CEFIC-ESIG (Europe, 2/2011). Notes: Recommended by |
| | manufacturer |
| | TWA: 1200 mg/m³, ((240 ppm)) 8 hours. Form: Vapour |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---------------------------------|------|-------------------------|-----------------------|-------------------------|----------|
| white mineral oil (petroleum) | DNEL | Long term Dermal | 220 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 160 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 92 mg/kg bw/day | Man via the environment | Systemic |
| | DNEL | Long term Inhalation | 35 mg/m³ | Man via the environment | Systemic |
| | DNEL | Long term Oral | 40 mg/kg bw/day | Man via the environment | Systemic |
| hydrocarbons, isoalkanes, C7-C9 | DNEL | Long term Dermal | 773 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 2035 mg/ m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 699 mg/kg bw/day | Consumers | Systemic |
| | DNEL | Long term Inhalation | 608 mg/m ³ | Consumers | Systemic |
| | DNEL | Long term Oral | 699 mg/kg bw/day | Consumers | Systemic |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: 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 vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

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.

Eye/face protection

: Safety glasses with side shields. (EN166)

Skin protection Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: natural rubber (latex) or nitrile rubber

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

EN 374-3: 2003

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.

Body protection

: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. (EN 1149-1)

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour

(Type A) and particulate filter. (EN 140)

Environmental exposure controls

: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Aerosol.]

Colour : Off-white.

Odour : Solvent-like [Slight]

pH : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: -70°C

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SECTION 9: Physical and chemical properties

Evaporation rate

: Not available.

Flammability (solid, gas)

: Highly flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge and heat.

Slightly flammable in the presence of the following materials or conditions:

shocks and mechanical impacts.

In use, may form flammable/explosive vapour-air mixture. Vapour may travel a

considerable distance to source of ignition and flash back.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or : Lower: 3%

explosive limits Upper: 18%

Vapour pressure : 400 kPa [room temperature]

Vapour density : >1 [Air = 1]
Relative density : 0,62 to 0,63

Solubility(ies) : Very slightly soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 400°C

Decomposition temperature: Not available.

Viscosity : Kinematic (room temperature): <0,07 cm²/s

Explosive properties : Highly explosive in the presence of the following materials or conditions: open

flames, sparks and static discharge, heat and shocks and mechanical impacts. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated.

Bursting aerosol containers may be propelled from a fire at high speed.

Oxidising properties : Not available.

9.2 Other information

Type of aerosol : Spray

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur.
 hazardous reactions

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous
 Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 mixture 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 |
|---------------------------------|---------------------------------|---------------|----------------------------|----------|
| white mineral oil (petroleum) | LC50 Inhalation Dusts and mists | Rat | >5000 mg/m ³ | 4 hours |
| | LD50 Dermal LD50 Oral | Rabbit Rat | >5000 mg/kg >5000 mg/kg | - |
| hydrocarbons, isoalkanes, C7-C9 | LC50 Inhalation Vapour | Rat | 0 0 | 4 hours |
| | LD50 Dermal LD50 Oral | Rabbit Rat | >2000 mg/kg >5000 mg/kg | - - |

Conclusion/Summary

: Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------------|---|------------------|-------|----------|-------------|
| hydrocarbons, isoalkanes, C7-C9 | Skin - Erythema/Eschar Eyes - Redness of the | Rabbit Rabbit | 1 | - | - |
| | conjunctivae | | | | |

Conclusion/Summary

Skin : Causes skin irritation.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|---------------------------------|-------------------|---------|-----------------|
| hydrocarbons, isoalkanes, C7-C9 | Respiratory | Rat | Not sensitizing |

Conclusion/Summary : Not available.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|---------------------------------|----------|-------------------|----------|
| hydrocarbons, isoalkanes, C7-C9 | OECD 471 | Subject: Bacteria | Negative |

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

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SECTION 11: Toxicological information

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|---------------------------------|-------------------|-----------|------------------------|---------|------|----------|
| hydrocarbons, isoalkanes, C7-C9 | Negative | Negative | Negative | Rat | Oral | - |

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------|------------|-------------------|------------------|
| hydrocarbons, isoalkanes, C7-C9 | Category 3 | Not applicable. | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Product/ingredient name | Result |
|---------------------------------|--------------------------------|
| hydrocarbons, isoalkanes, C7-C9 | ASPIRATION HAZARD - Category 1 |

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------|------------------------|---|----------|
| hydrocarbons, isoalkanes, C7-C9 | Acute EC50 29 mg/l | Algae - pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 2,4 mg/l | Daphnia spec. | 48 hours |
| | Acute LC50 18,4 mg/l | Fish | 96 hours |
| | Acute NOEC 6,3 mg/l | Algae - pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC 0,17 mg/l | Daphnia spec. | 21 days |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---------------------------------|------|----------------|------|----------|
| hydrocarbons, isoalkanes, C7-C9 | - | 22 % - 28 days | - | - |

Conclusion/Summary: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------|-------------------|------------|------------------|
| hydrocarbons, isoalkanes, C7-C9 | - | - | Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------|-------------|--------------|
| white mineral oil (petroleum) hydrocarbons, isoalkanes, C7-C9 | | 935 to 1933 | high high |

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Volatile. This product is likely to volatilise rapidly into the air because of its high vapour pressure.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

Disposal considerations

: Do not allow to enter drains or watercourses.

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

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation | |
|------------|---|--|
| 13 02 08* | other engine, gear and lubricating oils | |

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--------------------------------|
| Spraycans | 20 01 22 spraycans |

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|------------------------------------|--|--|--|
| 14.1 UN number | UN 1950 | UN 1950 | UN 1950 |
| 14.2 UN proper shipping name | AEROSOLS Flammable [Limited quantity] | AEROSOLS Flammable [Limited quantity] | AEROSOLS, Flammable |
| 14.3 Transport hazard class(es) | 2 | 2.1 | 2.1 |
| 14.4 Packing group | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. |
| Additional information | Limited quantity: LQ2 Remarks: (≤ 1L:) Limited Quantity - ADR/IMDG 3.4 ADR Tunnel code: (D) | Emergency schedules (EmS): F-D + S-U Remarks: Limited Quantity - ADR/IMDG 3.4 | 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: Y 203 |

user

14.6 Special precautions for : 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.

SECTION 15: Regulatory information

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

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks. as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

CN code : 3208 10 90

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Other EU regulations

VOC for Ready-for-Use : Not available.

Mixture

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SECTION 15: Regulatory information

Europe inventory

: All components are listed or exempted.

Aerosol dispensers

n

Extremely flammable

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|----------------|---|
| | Expert judgment Expert judgment Expert judgment |

Full text of abbreviated H statements

: H220 Extremely flammable gas. H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2 Aquatic Chronic 3, H412 AQUATIC TOXICITY (CHRONIC) - Category 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
Flam. Aerosol 1, H222 FLAMMABLE AEROSOLS - Category 1
Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

Full text of abbreviated R phrases

: R12- Extremely flammable.

R11- Highly flammable.

R65- Harmful: may cause lung damage if swallowed.

R38- Irritating to skin.

R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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SECTION 16: Other information

Full text of classifications

[DSD/DPD]

: F+ - Extremely flammable F - Highly flammable

Xn - Harmful Xi - Irritant

N - Dangerous for the environment

Date of printing Date of issue/ Date of

revision

7/10/2014. : 18/09/2014.

Date of previous issue

: 18/09/2014.

Version

: 1

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 fulfil 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.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



SAFETY DATA SHEET

X1 eXcellent Ceramic Anti Seize spray

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

1.1 Product identifier

Product name : X1 eXcellent Ceramic Anti Seize spray

Product description : Metal lubricant.

Product type : Aerosol.

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

Not applicable.

1.3 Details of the supplier of the safety data sheet

Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium

Telephone no.: +32 (0) 13 460 200

Fax no.: +32 (0) 13 460 201

responsible for this SDS

e-mail address of person

: rpmeurohas@ro-m.com

1.4 Emergency telephone number

Telephone number : +44 (0) 207 858 1228

Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Aerosol 1, H222 Skin Irrit. 2, H315 Aquatic Chronic 3, H412

Classification according to Directive 1999/45/EC [DPD]

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

Classification : F+; R12

R52/53

Physical/chemical

hazards

: Extremely flammable.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Hazard pictograms





Signal word : Danger

Hazard statements : Extremely flammable aerosol.

Causes skin irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statements

General: Read label before use. If medical advice is needed: Have product container or label

at hand.

Prevention : Do not spray on an open flame or other ignition source. Wear protective gloves and

eye protection: gloves: natural rubber (latex) or nitrile rubber, safety glasses with

side-shields. Avoid release to the environment.

Response : IF ON SKIN: Wash with plenty of soap and water.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label

elements

: Pressurized container: may burst if heated. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or

burn, even after use. Protect from sunlight and do not expose to temperatures

exceeding 50 °C. Keep out of reach of children.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

: Mixture

Substance/mixture

| | | | Class | ification | |
|-----------------------------|---|-------------|------------------------------|--|---------|
| Product/ingredient name | Identifiers | % | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | Туре |
| | EC: 270-704-2 CAS: 68476-85-7 Index: 649-202-00-6 | 50 - <75 | F+; R12 | Flam. Gas 1, H220 | [2] |
| (petroleum) | REACH #: 01-2119487078-27 EC: 232-455-8 CAS: 8042-47-5 | 15 - <20 | Not classified. | Not classified. | [2] |
| 11.7 41. 5 5 41. 5 5 1. 6 7 | REACH #: 01-2119471305-42 EC: 292-458-5 | 10 - <15 | F; R11 Xn; R65 Xi; R38 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| .pooitioin iiiioi iiia | g. ca.cc | | |
|------------------------|---|--|--|
| CAS: 90622-56-3 | R67 N; R51/53 | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | |
| | See Section 16 for the full text of the R- phrases declared above. | See Section 16 for the full text of the H statements 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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of 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. If unconscious, place in recovery |

position and seek medical advice.

| Eye contact | : | Chec | k fo | r and | remove | any | / contact | lenses. | Immedia | itely | flush | eyes with | running |
|-------------|---|------|------|-------|--------|-----|-----------|---------|---------|-------|-------|-----------|---------|
| | | | - | | | | | | | _ | | | |

water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

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.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 mixture 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.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

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SECTION 4: First aid measures

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Additional information

: Pressurized container: may burst if heated. Bursting aerosol containers may be propelled from a fire at high speed. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: 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). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour 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.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

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 mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

: Not available.

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|---------------------------------|--|
| liquefied petroleum gas | EH40/2005 WELs (United Kingdom (UK), 12/2011). |
| | STEL: 2180 mg/m³ 15 minutes. |
| | STEL: 1250 ppm 15 minutes. |
| | TWA: 1750 mg/m ³ 8 hours. |
| | TWA: 1000 ppm 8 hours. |
| white mineral oil (petroleum) | CEFIC-ESIG (Europe, 2011). Notes: Recommended by |
| , , | manufacturer |
| | TWA: 5 mg/m ³ 8 hours. Form: Mist |
| | STEL: 10 mg/m³ 15 minutes. Form: Mist |
| hydrocarbons, isoalkanes, C7-C9 | CEFIC-ESIG (Europe, 2/2011). Notes: Recommended by |
| | manufacturer |
| | TWA: 1200 mg/m³, ((240 ppm)) 8 hours. Form: Vapour |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---------------------------------|------|-------------------------|-----------------------|-------------------------|----------|
| white mineral oil (petroleum) | DNEL | Long term Dermal | 220 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 160 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 92 mg/kg bw/day | Man via the environment | Systemic |
| | DNEL | Long term Inhalation | 35 mg/m³ | Man via the environment | Systemic |
| | DNEL | Long term Oral | 40 mg/kg bw/day | Man via the environment | Systemic |
| hydrocarbons, isoalkanes, C7-C9 | DNEL | Long term Dermal | 773 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 2035 mg/ m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 699 mg/kg bw/day | Consumers | Systemic |
| | DNEL | Long term Inhalation | 608 mg/m ³ | Consumers | Systemic |
| | DNEL | Long term Oral | 699 mg/kg bw/day | Consumers | Systemic |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: 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 vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

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.

Eye/face protection

: Safety glasses with side shields. (EN166)

Skin protection Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: For prolonged or repeated handling, use the following type of gloves:

Recommended: natural rubber (latex) or nitrile rubber

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

EN 374-3: 2003

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.

Body protection

: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres. (EN 1149-1)

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour

(Type A) and particulate filter. (EN 140)

Environmental exposure controls

: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Aerosol.]

Colour : Off-white.

Odour : Solvent-like [Slight]

pH : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: -70°C

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SECTION 9: Physical and chemical properties

Evaporation rate

: Not available.

Flammability (solid, gas)

: Highly flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge and heat.

Slightly flammable in the presence of the following materials or conditions:

shocks and mechanical impacts.

In use, may form flammable/explosive vapour-air mixture. Vapour may travel a

considerable distance to source of ignition and flash back.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or : Lower: 3%

explosive limits Upper: 18%

Vapour pressure : 400 kPa [room temperature]

Vapour density : >1 [Air = 1]
Relative density : 0,62 to 0,63

Solubility(ies) : Very slightly soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 400°C

Decomposition temperature: Not available.

Viscosity : Kinematic (room temperature): <0,07 cm²/s

Explosive properties : Highly explosive in the presence of the following materials or conditions: open

flames, sparks and static discharge, heat and shocks and mechanical impacts. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated.

Bursting aerosol containers may be propelled from a fire at high speed.

Oxidising properties : Not available.

9.2 Other information

Type of aerosol : Spray

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur.
 hazardous reactions

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous
 Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 mixture 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 |
|---------------------------------|---------------------------------|---------------|----------------------------|----------|
| white mineral oil (petroleum) | LC50 Inhalation Dusts and mists | Rat | >5000 mg/m ³ | 4 hours |
| | LD50 Dermal LD50 Oral | Rabbit Rat | >5000 mg/kg >5000 mg/kg | - |
| hydrocarbons, isoalkanes, C7-C9 | LC50 Inhalation Vapour | Rat | 0 0 | 4 hours |
| | LD50 Dermal LD50 Oral | Rabbit Rat | >2000 mg/kg >5000 mg/kg | - - |

Conclusion/Summary

: Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------------|---|------------------|-------|----------|-------------|
| hydrocarbons, isoalkanes, C7-C9 | Skin - Erythema/Eschar Eyes - Redness of the | Rabbit Rabbit | 1 | - | - |
| | conjunctivae | | | | |

Conclusion/Summary

Skin : Causes skin irritation.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|---------------------------------|-------------------|---------|-----------------|
| hydrocarbons, isoalkanes, C7-C9 | Respiratory | Rat | Not sensitizing |

Conclusion/Summary : Not available.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|---------------------------------|----------|-------------------|----------|
| hydrocarbons, isoalkanes, C7-C9 | OECD 471 | Subject: Bacteria | Negative |

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

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SECTION 11: Toxicological information

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|---------------------------------|-------------------|-----------|------------------------|---------|------|----------|
| hydrocarbons, isoalkanes, C7-C9 | Negative | Negative | Negative | Rat | Oral | - |

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---------------------------------|------------|-------------------|------------------|
| hydrocarbons, isoalkanes, C7-C9 | Category 3 | Not applicable. | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Product/ingredient name | Result |
|---------------------------------|--------------------------------|
| hydrocarbons, isoalkanes, C7-C9 | ASPIRATION HAZARD - Category 1 |

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------|------------------------|---|----------|
| hydrocarbons, isoalkanes, C7-C9 | Acute EC50 29 mg/l | Algae - pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 2,4 mg/l | Daphnia spec. | 48 hours |
| | Acute LC50 18,4 mg/l | Fish | 96 hours |
| | Acute NOEC 6,3 mg/l | Algae - pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC 0,17 mg/l | Daphnia spec. | 21 days |

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---------------------------------|------|----------------|------|----------|
| hydrocarbons, isoalkanes, C7-C9 | - | 22 % - 28 days | - | - |

Conclusion/Summary: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------|-------------------|------------|------------------|
| hydrocarbons, isoalkanes, C7-C9 | - | - | Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------|-------------|--------------|
| white mineral oil (petroleum) hydrocarbons, isoalkanes, C7-C9 | | 935 to 1933 | high high |

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Volatile. This product is likely to volatilise rapidly into the air because of its high vapour pressure.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Yes.

Disposal considerations

: Do not allow to enter drains or watercourses.

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

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code | Waste designation | |
|------------|---|--|
| 13 02 08* | other engine, gear and lubricating oils | |

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste.

| Type of packaging | European waste catalogue (EWC) |
|-------------------|--------------------------------|
| Spraycans | 20 01 22 spraycans |

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|------------------------------------|--|--|--|
| 14.1 UN number | UN 1950 | UN 1950 | UN 1950 |
| 14.2 UN proper shipping name | AEROSOLS Flammable [Limited quantity] | AEROSOLS Flammable [Limited quantity] | AEROSOLS, Flammable |
| 14.3 Transport hazard class(es) | 2 | 2.1 | 2.1 |
| 14.4 Packing group | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. |
| Additional information | Limited quantity: LQ2 Remarks: (≤ 1L:) Limited Quantity - ADR/IMDG 3.4 ADR Tunnel code: (D) | Emergency schedules (EmS): F-D + S-U Remarks: Limited Quantity - ADR/IMDG 3.4 | 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: Y 203 |

user

14.6 Special precautions for : 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.

SECTION 15: Regulatory information

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

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks. as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

CN code : 3208 10 90

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Other EU regulations

VOC for Ready-for-Use : Not available.

Mixture

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SECTION 15: Regulatory information

Europe inventory

: All components are listed or exempted.

Aerosol dispensers

n

Extremely flammable

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|----------------|---|
| | Expert judgment Expert judgment Expert judgment |

Full text of abbreviated H statements

: H220 Extremely flammable gas. H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2 Aquatic Chronic 3, H412 AQUATIC TOXICITY (CHRONIC) - Category 3

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1
Flam. Aerosol 1, H222 FLAMMABLE AEROSOLS - Category 1
Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

Full text of abbreviated R phrases

: R12- Extremely flammable.

R11- Highly flammable.

R65- Harmful: may cause lung damage if swallowed.

R38- Irritating to skin.

R67- Vapours may cause drowsiness and dizziness.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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SECTION 16: Other information

Full text of classifications

[DSD/DPD]

: F+ - Extremely flammable F - Highly flammable

Xn - Harmful Xi - Irritant

N - Dangerous for the environment

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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 fulfil 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.

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Ceramic Antiseize Spray

supplied by

RUST-OLEUM Netherlands B.V.

Braak 1, 4704 RJ, P.O. Box 138, 4700 AC, Roosendaal, The Netherlands

has been registered by InS Services



Incidental Food Contact

This product is acceptable as a lubricant, anti rust film or release agent with incidental food contact for use in and around food processing areas in locations in which there is a potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect.

Date: 23 June 2011

InS Services (UK) Ltd.

www.insservices.eu