

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1272/2008

ProGARDO VCI+ SPRAY & LIQUID



1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier:

Product name: ProGARDO VCI+ SPRAY

Product description: VCI emitter

1.2 Intended use of the product:

Corrosion protection, de-watering, cleaning, industrial use

1.3 Details of the supplier of the Safety Data Sheet:

Company name ALFA Solution AS

Address Østerskogen 60, 4879 Grimstad, Norway

Tel + 47 37 09 19 20

Fax + 47 37 09 19 28

E-mail post@alfasolution.no

1.4 Emergency telephone numbers:

+47 22 59 13 00 (Toxic Information)

+47 37 09 19 20 (Company Info Desk)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance:

Physio-Chemical Hazards: Not classified as hazardous

Hazards of Health: Asp. Tox. 1, H304

Hazards of Environment: Not classified as hazardous

2.2 Labeling:

Hazard Pictogram:



Signal Word:

GHS08

Danger

Hazard Statements: H304: May be fatal if swallowed and enters airways.

Precautionary Statements:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER, Doctor or Physician.

P331: Do NOT induce vomiting.

P405: Store locked up.

P501: Dispose of contents/container to qualified official collector.

2.3 Other Hazards: None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	EC No.	CAS No.	%	Classification
Organic salts	-	-	5-15	-
White Mineral Oil	232-455-8	8042-47-5	20-30	H304
Distillates (Petroleum) Hydrotreated light	265-149-8	64742-47-8	65-80	H304
2-(2-butoxyethoxy) ethanol	203-961-6	112-34-5	0,5-5	H319

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye contact: Immediately flush eyes with large amount of water.

Skin contact: Remove contaminated clothing, wash skin thoroughly with water and soap.

Ingestion: Do not induce vomiting, rinse mouth, call for medical help.

Inhalation: If an exposure to high-concentrated oil mists occurs, move the person to fresh air. If liquid are inhaled, take person to hospital immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Not applicable.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Depending on the exposure level, it is recommended periodical medical checks.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Recommended: Sprayed water, alcohol resistant foam, CO₂, powder.

Unsuitable : Water jet

5.2 Special Hazards Arising From the Substance or Mixture:

In case of combustion, it may generate dangerous smokes of carbon monoxide, carbon dioxide, unburnt hydrocarbon flue gas and other pyrolysis products.

5.2 Advice for Firefighters

Oxygen breathing set and protective clothes, cool the tanks by water jet.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, Protective Equipment and Emergency Procedure:

Remove ignition sources, provide sufficient ventilation. Wear suitable protective equipment to prevent any contamination of skin, Personal Protection Equipment.

6.2 Environmental Precautions:

Do not allow product to enter sewage, drinking water supplies or waterways.

6.3 Methods and Material for containment and clean up:

Collect the material with an inert absorbent and put in an appropriate waste disposal container for proper disposal.

6.4 Additional information

See Section 8 and disposal measures in Section 13.

7. HANDLING AND STORAGE

7.1 Safe Handling precautions:

Use normal security precautions. Provide appropriate exhaust ventilation at the workplace. Do not drink, eat or smoke in working area.

7.2 Storage requirements

Keep container tightly closed and dry. Store in a cool, well-ventilated area. Keep away from heat sources.

7.3 Specific end use

See TDS form of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

National occupational exposure limit in accordance with Directive 98/24/EC

TLV-TWA (A.G.C.I.H), oil mist: $5\text{mg}/\text{m}^3$

TLV-STEL (A.G.C.I.H), oil mist: $10\text{mg}/\text{m}^3$

8.2 Exposure Controls:

Appropriate Engineering Controls: Prevent mist or aerosol from generating.

Individual Protection Measures:

Eye/Face protection: Goggles are recommended.

Hand/Skin protection: Mineral oil-proof gloves and standard working clothes are recommended.

Respiratory Protection: Not necessary under normal use conditions.

Environmental Exposure Control: Do not allow to enter soil, sewers or waterway.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information of Basic Physical and Chemical Properties:

Appearance	Yellowish, transparent liquid
Odor	Characteristic low
Odor threshold	No data available
pH	N/A
Pour point	<-70°C
Initial boiling point and boiling range	164°C (327.2°F)
Flash point	>60°C
Evaporation rate	N/A
Flammability (solid, gas/	N/A
Upper/lower flammability or explosive limits	N/A
Vapor pressure at 20°C	<0.01 hPa
Vapor density (air=1)	>2
Relative density	0.80-0.82 g/cm ³ at 15°C
Solubility in water	Negligible
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	>260°C
Decomposition temperature	No data available
Viscosity at	1.5-1.7 cSt at 40°C
Explosive properties	N/A
Oxidizing properties	N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive

10.2 Chemical Stability: Stable under normal conditions of use and storage.

10.3 Conditions to avoid: Avoid exposure to heat, especially in closed containers.

10.4 Incompatible materials: Strong oxidizing agents

10.5 Hazardous decomposition products: None

10.6 Possibility of Hazardous Reactions: None

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute Toxicity: Not classified

Ingredients	CAS NO.	% By Weight	LD50 (Oral) mg/kg bw	LD50 (Dermal) mg/kg bw	LC50 (Inhalation)
Destillates (Petroleum) Hydrotreated Light	64742-47-8	65-80	>15,000	>3,160	Not Toxic
White Mineral Oil	8042-47-5	20-30	>5000	>2000	Not Toxic
Organic Salts	-	5-15	>3600	No data available	Not Toxic
2-(2-butoxyethoxy) ethanol	112-34-5	0.5-5	>2000	>2700	Not Toxic

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Skin Corrosion / Irritation: Not corrosive/not irritating.

Serious Eye Damage / Irritation: Not corrosive/not irritating.

Respiratory or Skin Sensitizing: Not sensitizing.

Repeted Dose Toxicity: Not toxic.

Carcinogenicity: Not carcinogenic via oral, dermal or inhalation exposures.

Germ Cell Mutagenicity: Generic toxicity: negative

Reproductive Toxicity: Not reproductive toxicant (OECD 421).

12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not toxic

12.2 Persistence/Degradability: Inherently biodegradable, but not readily biodegradable; moderately persistent, particularly in anaerobic conditions

12.3 Bioaccumulative Potential: Being poorly soluble in water, its bio-availability to aquatic organisms is minimal and the bioaccumulation is unlikely.

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB Assessment: Not classified as PBT or vPvB substance

12.6 Other Adverse Effects: None

13. DISPOSAL CONSIDERATIONS

All disposals must comply with community regulations on this issue expect for different National or Regional provisions.

13.1 Waste Treatment Methods:

Do not dispose the product either new or used by discharging into sewers, tunnels, lakes or waterways. Deliver to qualified official collector.

According to the actual use this product can be classified with different codes, e.g. in group 13 and 16 (Ref.: 2001/118/CE). It is not possible to give a general classification: the user has the responsibility of choosing the right code considering the actual use of the product, alterations and contaminations.

13.2 Disposal of Packaging:

Dispose in a safe manner and in accordance with local regulations.

Do not cut, weld, drill, burn or incinerate empty containers or drums unless they have been cleaned and declared safe.

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14. TRANSPORT INFORMATION

In accordance with ADR/RID/IMDG/ICAO

14.1 UN Number: N/A

14.2 UN Proper Shipping Name: N/A

14.3 Transport Hazard Class: Not classified

14.4 Packing Group: N/A

14.5 Environmental Hazards: None

14.6 Special Precautions for User: N/A

14.7 Transport in bulk according annex II of MARPOL 73/78 and the IBC Code: No Data

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

National laws on classification and labelling of dangerous substance (Adoption of Directive 67/548/CE and subsequent Adaptation to Technical Progress, Regulation 1272/2008/CE and subsequent amendments.

National adoption of Directives 89/391/CEE, 89/654/CEE, 89/656/CEE, 97/42/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE and 2003/18/CE.

National adoption of Directive 75/439/CEE concerning disposal of used oil.

Relevant national laws on recycling and re-use of waste materials.

Relevant national laws on prevention of water pollution.

16. OTHER INFORMATION

16.1 Revision: This safety sheet have been prepared according to the latest Community directives as far as new regulation references and data are concerned.

16.2 Other Abbreviations:

H319: Causes serious eye irritation

ADR/RID/IMDG/ICAO: Carriage of Dangerous Goods by Road, Air, Sea and Railway

16.3 Key Information Sources Used in this MSDS:

The information contained within this Safety Data Sheet is believed to be accurate and have been compiled from sources believed to be reliable. It is offered for consideration, investigation and verification. It is the user's responsibility to follow the guidelines as outlined within this SDS. The user assumes all risk of use, storage and handling in compliance with applicable laws and regulations. ALFA Solution AS makes no warrant of any kind, express or implied, concerning the accuracy or completeness of the information and data within this SDS. ALFA Solution AS will not be liable for claims relating to any parties use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are accurate, inaccurate, incomplete or otherwise misleading. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The user should always follow the most current SDS available.