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

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SAFETY DATA SHEET

5IN1 DPF CLEANER

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

1.1. Product Identifier

Product name : 5in1 DPF CLEANER Step 1
Art.nr : 687030 1 Liter

1.2. Details of the supplier of the safety data sheet

Maumo International B.V.
P.O. Box 441
2990 AK Barendrecht
Tel.: +31 (0) 180 699 234
Fax.: +31 (0)180 699 235
Email: info@maumo.nl
www.maumo.nl

1.3 Emergency telephone number

Emergencies : +31 (0) 610 022 373 just outside office (office hours 08:00 to 17:00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement
Eye Dam. 1 H318-Causes serious eye damage.

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008 (CLP)



Signal Word
Danger

H318-Causes serious eye damage.
P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P280-Wear eye protection.P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER/doctor.
Contains: Diethanolamine

2.3 Other hazards
The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006. The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC)1907/2006.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixture
Diethanolamine Content 3 – 5 %
Registration number (REACH) n/a
Index 603-071-00-1 EINECS, ELINCS, NLP 203-868-0 CAS 111-42-2

Classification according to Directive 67/548/EEC:
Harmful, Xn, R22 Irritant, Xi, R38 Irritant, Xi, R41 Harmful, Xn, R48/22

Classification according to Regulation (EC) 1272/2008 (CLP):
Acute Tox. 4, H302 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Dam. 1, H318

4. FIRST-AID MEASURES

4.1 Description of first aid measures
Inhalation
Supply person with fresh air and consult doctor according to symptoms.

Skin contact
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin(flare), consult a doctor. Unsuitable cleaning product: Solvent, Thinners

Eye contact
Remove contact lenses. Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye. Follow-up examination by an ophthalmologist

Ingestion
Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur: Irritation of the eyes, Irritation of the skin.
Ingestion: Pain in the mouth and throat. Gastrointestinal disturbances

4.3 Indication of any immediate medical attention and special treatment needed
Not Applicable

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher. Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop: Oxides of carbon, Oxides of nitrogen, Toxic gases

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping

6.2 Environmental precautions
If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration.Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Neutralising is possible (only from a specialist).Diluting with water is possible.Flush residue using copious water.

6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13

7. HANDLING AND STORAGE

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling
7.1.1 General recommendations
Ensure good ventilation. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace
General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Store at room temperature. Protect from frost.

7.3 Specific end use(s)
No information available at present.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
Nitrilotriethanol

Application	Exposure route	Effect on Health	Descriptor/Value/Unit/Note
Workers/employees	Human – dermal	Long term, systemic effects	DNEL 6,3mg/kg bw/day
Workers/employees	Human – inhalation	Long term, systemic effects	DNEL 5mg/m3
Workers/employees	Human – inhalation	Long term, local effects	DNEL 5mg/m3
Consumer	Human – dermal	Long term, systemic effects	DNEL 3,1mg/kg bw/day
Consumer	Human – oral	Long term, systemic effects	DNEL 13mg/kg bw/day
Consumer	Human – inhalation	Long term, systemic effects	DNEL 1,25mg/m3
Consumer	Human – inhalation	Long term, local effects	DNEL 1,25mg/kg
Environment – freshwater			PNEC 0,32mg/l
Environment – marine			PNEC 0,032mg/l
Environment – water, sporadic (intermittent) release			PNEC 5,12mg/l
Environment - sewage treatment plant			PNEC 10mg/l

Environment - sediment, freshwater	PNEC 1,7mg/kg
Environment - sediment, marine	PNEC 0,17mg/kg
Environment – soil	PNEC 0,151mg/kg

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment
General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
Eye/face protection: Tight fitting protective goggles with side protection (EN 166).
Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Safety gloves made of butyl (EN 374) Protective Neoprene® / polychloroprene gloves (EN 374). Protective nitrile gloves (EN 374) Minimum layer thickness in mm:0,5 Permeation time (penetration time) in minutes:480 The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.
Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)
Respiratory protection: Normally not necessary. Thermal hazards: Not applicable
Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Blue, Clear
Odour	:	Characteristic
Odour threshold	:	Not determined
pH-value	:	11
Melting point/freezing point	:	Not determined
Initial boiling point and boiling range	:	Not determined
Flash point	:	n.a.
Evaporation rate	:	Not determined
Flammability (solid, gas)	:	Not determined
Lower explosive limit	:	n.a.
Upper explosive limit	:	n.a.
Vapour pressure	:	Not determined
Vapour density (air = 1	:	Not determined
Density	:	1,005 g/ml (20°C)
Bulk density	:	Not determined
Solubility(ies)	:	Not determined
Water solubility	:	Soluble
Partition coefficient (n-octanol/water)	:	Not determined
Auto-ignition temperature	:	Not determined
Decomposition temperature	:	Not determined
Viscosity	:	Not determined
Explosive properties	:	Not determined
Oxidising properties	:	No

9.2 Other information
N/A

10. STABILITY AND REACTIVITY

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling

10.3 Possibility of hazardous reactions
No dangerous reactions are known.

10.4 Conditions to avoid
None known See also section 7.

10.5 Incompatible materials
Avoid contact with strong alkalis. Avoid contact with strong acids. Avoid contact with strong oxidizing agents. See also section 7.

10.6 Hazardous decomposition products
No decomposition when used as directed. See also section 5.2

11. TOXICOLOGICAL INFORMATION

Possibly more information on health effects, see Section 2.1 (classification).

DPF Cleaner

Toxicity/effect	**Endpoint**	**Value Unit Organism Test method**	**Notes**
Acute toxicity, by oral route:	ATE	>2000 mg/kg	calculated value
Acute toxicity, by dermal route:			n.d.a.
Acute toxicity, by inhalation:			n.d.a.
Skin corrosion/irritation:			n.d.a.
Serious eye damage/irritation:			n.d.a.
Respiratory or skin sensitisation:			n.d.a.
Germ cell mutagenicity:			n.d.a.
Carcinogenicity:			n.d.a.
Reproductive toxicity:			n.d.a.
Specific target organ toxicity -single exposure (STOT-SE):			n.d.a.
Specific target organ toxicity -repeated exposure (STOT-RE):			n.d.a.
Aspiration hazard:			n.d.a.
Respiratory tract irritation:			n.d.a.
Repeated dose toxicity:			n.d.a.
Symptoms:			n.d.a.
Other information:		Classification according to calculation procedure	

Diethanolamine
Acute toxicity, by oral route: LD50 1600mg/kg Rat OECD 401 (Acute Oral Toxicity)
Acute toxicity, by oral route:LD50 676mg/kgv Rat
Acute toxicity, by dermal route:LD50 12200mg/kg Rabbit
Skin corrosion/irritation: Rabbit OECD 404 (Acute Dermal Irritation/Corrosion) Irritant
Serious eye damage/irritation: Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Intensively irritant
Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) Not sensitizising

Germ cell mutagenicity:	No indications of such an effect.
Reproductive toxicity:	Negative
Reproductive toxicity:	No indications of such an effect.
Symptoms:	Breathing difficulties, respiratory distress, diarrhoea, coughing, Gastrointestinal disturbances, mucous membrane irritation

12. ECOLOGICAL INFORMATION

DPF Cleaner

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.

Mobility in soil:	n.d.a.
Results of PBT and vPvB assessment	n.d.a.
Other adverse effects:	n.d.a.

Other information: According to the recipe, contains no AOX.

Diethanolamine

Toxicity to fish: LC50 96h 1460 mg/l Pimephales promelas
Toxicity to daphnia: LC50 48h 55 mg/l Daphnia magna
Toxicity to algae: IC50 72h 75 mg/l Scenedesmus subspicatus
Persistence and degradability: 28d 93% OECD 301 A (ReadyBiodegradability - DOC Die-Away Test)
Persistence and degradability: 28d 97% OECD 301 A (ReadyBiodegradability - DOC Die-Away Test)
Bioaccumulative potential: Log Pow <1 Not to be expected Results of PBT and vPvB assessment No PBT substance, No vPvB substance
Toxicity to bacteria: EC50 16h >1000 mg/l Pseudomonas putida
Toxicity to bacteria: EC10 30min >1000 mg/l activated sludge OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Other information: BOD5 885 mg/g
Other information: COD 1352mg/g

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

For the substance / mixture / residual amounts EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.
(2001/118/EC, 2001/119/EC, 2001/573/EC) 07 06 01 aqueous washing liquids and mother liquors. 20 01 29 detergents containing dangerous substances

Recommendation: Pay attention to local and national official regulations E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material pay attention to local and national official regulations Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. Recommended cleaner: Water.

14. TRANSPORT INFORMATION

General statements

UN number	:	N/A.
Transport by road/by rail (ADR/RID)		
UN proper shipping name	:	N/A
Transport hazard class(es)	:	N/A
Packing group	:	N/A
Classification code	:	N/A.
LQ (ADR 2013)	:	N/A
LQ (ADR 2009)	:	N/A.
Environmental hazards	:	N/A
Tunnel restriction code	:	N/A
Transport by sea (IMDG)		
UN proper shipping name	:	N/A
Transport hazard class(es)	:	N/A
Packing group	:	N/A
Marine Pollutant	:	N/A
Environmental hazards	:	N/A
Transport by air (IATA)		
UN proper shipping name	:	N/A
Transport hazard class(es)	:	N/A.
Packing group	:	N/A
Environmental hazards	:	N/A

Special precautions for user
Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Non-dangerous material according to Transport Regulations

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
For classification and labelling see Section 2.
Observe restrictions: Comply with trade association/occupational health regulations. Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

16. OTHER INFORMATION

Revision date:	20/11/2014
Revision:	1

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