



SAFETY DATA SHEET
PROFI-CAR RADIATOR-CLEANER

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Compilation date: 25.11.2020

Revision No: 1

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

1.1. Product identifier

Product name: PC RADIATOR CLEANER (UFI:H21D-85P2-G00M-HF41)

Product code: 60312

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

Use of substance / mixture: Cleaner liquid

1.3. Details of the supplier of the safety data sheet

Company name: PROFI-TECH GmbH

Otto-Lilienthal-Strasse 2

Friedrichshafen

88046

Germany

Tel: +49 7541 402860

Fax: +49 7541 4028699

Email: info@profi-tech.com

1.4. Emergency telephone number

Emergency tel: 24-hour emergency contact number out side USA/Canada: + 49 70024112112 (PRT)
24-hour emergency contact number in side USA/Canada: +11 49 70024112112 (PRT)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Eye Irrit. 2: H319

Most important adverse effects: Causes serious eye irritation.

2.2. Label elements

Label elements:

Hazard statements: H319: Causes serious eye irritation.

Hazard pictograms: GHS07: Exclamation mark



Signal words: Warning

Precautionary statements: P264: Wash soap and water. thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face 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.

P337+P313: If eye irritation persists: Get medical advice/attention.

[cont...]



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2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

2-BUTOXYETHANOL - REACH registered number(s): 01-2119475108-36-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%

Non-classified ingredients:

DISPERSANT

EINECS	CAS	PBT / WEL	CLP Classification	Percent
Mixture	Mixture	-	-	1-10%

POLY(OXY-1,2-ETHANEDIOL),ALPHA-ISODECYL-OMEGA-HYDROXY-,PHOSPHATE, POTASSIUM SALT

-	-	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	<1%
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POLY(OXY-1,2-ETHANEDIYL),.ALPHA.-ISODECYL-.OMEGA.-HYDROXY-,PHOSPHATE, POTASSIUM SALT

-	-	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315	<1%
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2,2'-IMINODIETHANOL - REACH registered number(s): 01-2119488930-28

203-868-0	111-42-2	-	Acute Tox. 4: H302; STOT RE 2: H373; Skin Irrit. 2: H315; Eye Dam. 1: H318	<1%
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N,N-BIS(2-HYDROXYETHYL)OLEAMID - REACH registered number(s): 01-2119968565-22-0000

202-281-7	93-83-4	-	Skin Irrit. 2: H315; Eye Dam. 1: H318	<1%
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MORPHOLINE

203-815-1	110-91-8	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314	<1%
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OLEYLSARKOSINSÄURE-NEUTRALIZED - REACH registered number(s): 01-2119488991-20

203-749-3	110-25-8	-	Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

[cont...]



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Ingestion: Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside keep bystanders upwind and away from danger point.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Mix with sand or vermiculite.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]



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Hazardous ingredients:

2-BUTOXYETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	25 ppm	50 ppm	-	-

Non-classified ingredients:

2,2'-IMINODIETHANOL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	13 mg/m ³	-	-	-

MORPHOLINE

UK	36 mg/m ³	72 mg/m ³	-	-
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DNEL/PNEC Values

Hazardous ingredients:

2-BUTOXYETHANOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	98 mg/m ³ , 20ppm	Workers	Systemic
DNEL	Inhalation	663 mg/m ³ , 135 ppm	Workers	Systemic
DNEL	Inhalation	246 mg/m ³ , 50ppm	Workers	Local
DNEL	Dermal (repeated dose)	75 mg/kg bw/d	Workers	Systemic
DNEL	Dermal	89 mg/kg bw/d	Workers	Systemic
DNEL	Dermal (repeated dose)	38 mg/kg bw/d	Consumers	Systemic
DNEL	Dermal	44,5 mg/kg bw/d	Consumers	Systemic
DNEL	Oral (repeated dose)	3,2 mg/kg bw/d	Consumers	Systemic
DNEL	Oral	13,4 mg/kg bw/d	Consumers	Systemic
DNEL	Inhalation (repeated dose)	49 mg/m ³	Consumers	Systemic
DNEL	Inhalation	426 mg/m ³	Consumers	Systemic
DNEL	Inhalation	123 mg/m ³	Consumers	Local
PNEC	Fresh water	8,8 mg/l	-	-
PNEC	Marine water	0,88 mg/l	-	-
PNEC	Microorganisms in sewage treatment	463 mg/l	-	-
PNEC	Fresh water sediments	34,6 mg/kg, TW	-	-

[cont...]



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PNEC	Marine sediments	3,46 mg/kg, TW	-	-
PNEC	Soil (agricultural)	2,8 mg/kg, TW	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required. Gas/vapour filter, type A: organic vapours (EN141).

Hand protection: Butyl gloves. Breakthrough time of the glove material > 4 hours.

Eye protection: Tightly fitting safety goggles.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Miscible in all proportions

Viscosity: Non-viscous

Kinematic viscosity: 1,2

Viscosity test method: Kinematic viscosity in 10-6 m²/s at 40°C (ISO 3104/3105)

Boiling point/range°C: 100

Flash point°C: >93

Autoflammability°C: >200

Relative density: 1,01

VOC g/l: 50

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

[cont...]

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-BUTOXYETHANOL

IVN	RAT	LD50	307	mg/kg
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	470	mg/kg

Non-classified ingredients:

DISPERSANT

ORAL	RAT	LD50	4000	mg/kg
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2,2'-IMINODIETHANOL

IVN	RAT	LD50	778	mg/kg
ORL	MUS	LD50	3300	mg/kg
ORL	RAT	LD50	620	µl/kg
SCU	RAT	LD50	2200	mg/kg

N,N-BIS(2-HYDROXYETHYL)OLEAMID

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

MORPHOLINE

ORL	MUS	LD50	525	mg/kg
ORL	RAT	LD50	1450	mg/kg
ORL	RAT	LDLO	1600	mg/kg

Toxicity values: No data available.

Symptoms / routes of exposure

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

DISPERSANT

Daphnia magna	48H EC50	>200	mg/l
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FISCH	96H LC50	>200	mg/l
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Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Non-volatile. Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the other possible disposal operations (e.g. evaporation, drying, calcination, etc.).

Recovery operations: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Waste code number: 070704

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H226: Flammable liquid and vapour.

[cont...]



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H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H373: May cause damage to organs ({{{0}}|message=<or state all organs affected, if known>|filter=(_)?ORGAN_.+}}}) through prolonged or repeated exposure ({{{1}}|message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>|filter=(_)?EXP_ROUTE_.+}}}).

H400: Very toxic to aquatic life.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.