

BIO TA

Tarmac and Asphalt Cleaner

Created on: 15. 10. 2009

Reviewed on: 08. 04. 2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Trade name	BIO TA	
REACH registration	Preparation according to REACH Regulation (EC) No. 1907/2006	
Use	Tarmac and asphalt cleaner	
Supplier	RAW Handel und Beratungs GmbH Grünstraße 5 D-79232 March-Hugstetten Phone +49 (0) 7665 / 934 29 - 0 Fax +49 (0) 7665 / 934 29 - 25 These numbers will only be staffed during office hours.	
Responsible Person	Mr J. Wittstock,	Phone +49 (0) 7665 / 934 29 - 0 This number will only be staffed during office hours.
Qualified Person	Dipl.-Ing. M. Fischer,	Phone +49 (0) 7665 / 934 29 - 17 This number will only be staffed during office hours. E-mail: sdb@raw-vertrieb.de
Emergency information (24 h)	Poison Information Center in Bonn,	Phone +49 (0) 228 / 19240

2. HAZARD IDENTIFICATION

The preparation is classified as dangerous in the sense of 1999/45/EC.

The preparation is subject to labelling. In all cases please note the information of the Safety Data Sheet.

Hazard symbol: X_i
Hazard warning label: Irritant

Particular risks for humans and the environment:

Irritating to the eyes. Avoid contact with skin and eyes. Low risk from inhalation. Avoid inhalation of vapours e.g. in the form of spray. Low order of acute oral toxicity but do not ingest. The product is not classified as hazardous to the environment. The product is not flammable or combustible.

Additional information:

The micro-organisms employed are not pathogenic (class 1 of the European Federation of Bio Technology). But they may transmit infections, e.g. when they enter the eyes or open wounds. In all cases please note the information of the Safety Data Sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation:

Aqueous cleaning suspension composed of bacteria cultures, salts, surfactants.

Hazardous ingredients:

Designation	EINECS	CAS No.	Conc. wt. %	Hazard symbol	R phrases	REACH
EDTA tetrasodium salt	-	-	0 - 2	Xi	R36/38	-
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	0 - 5	-	-	Pre-registered – Date of registration: 30.11.2010
Isopropylamine dodecylbenzene-sulfonate	247-556-2	26264-05-1	0 - 5	Xi	R41,38	Pre-registered – Date of registration: 30.11.2010
Alcohol ethoxylate	-	Polymer	0 - 5	Xi	R22,41	Pre-registered – Date of registration: 31.05.2018

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4. FIRST AID MEASURES

After inhalation:	Low risk when used as intended. After inhalatory exposure, remove the affected person to fresh air and keep warm and still. In case of accident or unwellness, seek medical advice immediately.
After skin contact:	After skin contact, wash immediately with plenty of water. Remove contaminated clothing and launder before reuse.
After eye contact:	Rinse eyes with running water for at least 10 minutes holding eyelids well apart and obtain further medical assistance.
After ingestion:	Do not swallow, rinse mouth with water. Drink water. Do not induce vomiting. Consult a doctor.

5. FIRE FIGHTING MEASURES

General information:	The product itself is not flammable.
Suitable extinguishing media:	Use extinguishing media appropriate to the source of the fire.
In case of fire:	Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Person-specific precautionary measures:	Mark out the area of accidental release with signs. Prevent access to unauthorised people.
Environmental measures:	Prevent discharge of large quantities to drain or water courses by means of containment measures.
Procedure for picking up / cleaning:	Disperse small spillages with large excess of water. Pick up larger quantities using a binding material for liquids. Dispose of contaminated materials properly.

7. HANDLING AND STORAGE

Handling Information on safe handling	Observe general rules of health and safety at work as well as of industrial hygiene. During filling, refilling and dosing as well as during sampling are to be used: gloves and protective goggles (see section 8).
Advice on fire and explosion protection	The product is not flammable.
Storage Requirements for storage rooms and vessels	Do not store at temperatures above 45 °C and protect from frost. May be stored for periods up to 6 months in the original containers.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information on plant design: See section 7.

Components with occupational exposure limits requiring monitoring

CAS number	Substance	Type of limit:	Value, unit:
34590-94-8	Dipropylene glycol monomethyl ether	EH40:2005 8h TWA 50ppm	308 mg/m ³

Engineering controls

General protection

Provide eyewash station. Ensure good ventilation.

Personal protective equipment

Hand protection

Gloves (nitrile or neoprene)

Eye protection

Wear protective goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Density	1,005 up to 1,015 g/cm ³
Vapour pressure	Corresponds to vapour pressure of water
Solubility in water	Soluble
pH value	7,0 up to 9,0 (at 20°C)
Flash point	Not applicable

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to avoid

Stable under normal conditions. Avoid overheating closed containers.

Materials to avoid: None known

Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

Health information: Irritating to skin and eyes.

Ingestion: Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, stomach and intestine.

Information on single components

Dipropylene glycol monomethyl ether	LD50 oral (rat): 5000 mg/kg
Isopropylamine	
dodecylbenzenesulfonate	LD50 oral (rat): > 2000 mg/kg
Alcohol ethoxylate	Oral: 200 < LD50 < 2000 mg/kg Dermal: LD50 > 2000 mg/kg Inhalation: LC50 > 5 mg/l

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12. ECOLOGICAL INFORMATION

Persistence/degradability

The surface active component is biodegradable (according to EC Regulation on detergents No. 648/2004).

Accumulation

No bioaccumulation is expected.

Information on single components

Alcohol ethoxylate

Fish toxicity: $1 < LC50 < 10$ mg/l

Daphnia toxicity: $1 < LC50 < 10$ mg/l

Algae toxicity: $1 < LC50 < 10$ mg/l

13. DISPOSAL CONSIDERATIONS

Product

If reuse or recycling is not possible: Disposal in accordance with the Waste Recycling and Management Law (KrW-/AbfG).

14. TRANSPORT INFORMATION

Land transport (ADR/RID):

No dangerous good in the sense of these transport regulations.

Inland waterway transport (ADN/ADNR):

No dangerous good in the sense of these transport regulations.

Sea ship transport (IMDG):

No dangerous good in the sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR):

No dangerous good in the sense of these transport regulations.

15. REGULATORY INFORMATION

Labelling in accordance with EC Directives:

Hazard symbol:

X_i

Hazard warning labelling:

Irritant

R phrases

R36

Irritating to eyes.

S phrases

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Occupational health and safety regulations

Regulations for the prevention of industrial accidents of the employers' liability insurance associations and Technical Rules for Hazardous Substances.

16. OTHER INFORMATION

The information given above is based on our present level of knowledge and does not constitute an assurance of properties. No claim is made to exhaustiveness. The information should only be considered a general guideline. Existing laws and regulations must be observed by the recipients of our product at their own responsibility. The company cannot be held responsible for damage resulting from the use of the product.