PLASTI CHEMIE
Produktionsgesellschaft mbH

SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Revision:24.02.2018 Version:3/ENG

SECTION 1: INDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name: **PLASTIFLOOR® Additive 523**

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

Relevant identified uses: coatings, inks.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **Plasti-Chemie Produktionsgesellschaft mbH**
Address: Falgardring 1
D-08223 Falkenstein
Germany

Telephone/Fax number: +49 3745/74432-0 / +49 3745/74432-27

E-mail address for a competent person responsible of sds: volkmar.lull@plasti-chemie.de

Further information provided by: Mr. Volkmar Lull, +49 3745/74432-0

1.4 Emergency telephone number

Chemtrec: 1-800-424-9300 for US
+1 703-527-3887 outside US
Europa 112
Österreich +43 1 406 43 43
Belgien Poison center (BE): +32 70 245 245
Dänemark Poison Control Hotline (DK): +45 82 12 12 12
Finnland Poison Information Centre (FI):+358 9 471 977
Frankreich ORFILA (FR): + 01 45 42 59 59
Deutschland Giftnotruf Berlin, Tel. 030 30686 790
Poison Center Nord: +49 551 19240 (24h erreichbar, Deutsch und Englisch)
Poison Information Centre Erfurt: +49 361 730730 (Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74, 99089 Erfurt)
Irland National Poisons Information Centre (IE): +353 1 8379964
Island +354 543 2222
Italien Poison Center, Milan (IT): +39 02 6610 1029
Luxemburg 112
Niederlande National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norwegen Poisons Information (NO):+ 47 22 591300
Portugal Poison Information Center (PT): +351 21 330 3284
Spanien Poison Information Service (ES): +34 91 562 04 20
Schweden Poisons Information Center (SV):+46 8 33 12 31
Schweiz Poison Center: Tel 145; +41 44 251 51 51
Großbritannien NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation (EG) 1272/2008/WE
Eye Irrit. 2B H320, Aquatic Chronic 2 H11
Causes eye irritation. Toxic to aquatic life with long lasting effects.

2.2 Label elements

This substance is graded and classified according to (EG) Nr. 1272/2008 [CLP].

Hazard symbols and signal words

Warning

Product identifier

Contains:	Di(trimethylolpropane) tetraacrylate

Hazard statements

H320	Causes eye irritation.
H412	Toxic to aquatic life with long lasting effects.

Precaution statements

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

The components of this mixture do not meet the criteria for PBT or vPvB in accordance of Annex XIII of REACH.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

CAS: 94108-97-1 EINECS: 302-434-9 Index number: - REACH-number.: -	Di(trimethylolpropane) tetraacrylate Classification acc. to 1272/2008/WE: Eye Irrit. 2 B H320, Aquatic Chronic 2 H11	<= 100 %

Additional information: For the wording of the hazard statements refer to section 16.

3.2 Mixture

Not applicable.

ABSCHNITT 4: FIRST AID MEASUREMENTS

4.1 Description of first aid measurements

General information:	Care of personal protection of the first aider.
Inhalation:	Move victim to fresh air and keep calm. Consult doctor if symptoms persist.
Skin contact:	Wash immediately with soap and water and rinse thoroughly. Directly remove contaminated clothing. Consult doctor if symptoms persist.
Eye contact:	Wash the eye with the eyelid open for several minutes under running water. Consult doctor if symptoms persist.
Ingestion:	Do not induce vomiting. Rinse mouth with water. Consult doctor if symptoms persist. Show the container or label.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated skin contact may cause irritation, reddening, dry skin, allergic skin irritation, itching, rash. After eye

contact reddening, watery eyes, burning eyes, irritation may occur. Swallowing may cause stomach pain, nausea, vomiting. High vapour concentration may cause headache, dizziness and respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment

No further information relevant.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguish media

Suitable extinguish media: CO_2; extinguishing powder, sand, water spray.

Unsuitable extinguish media: Water jet – risk of propagation of the flame.

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions traces of other toxic substances are possible. Cracked Hydrocarbons, carbon monoxide and carbon dioxide.

5.3 Advise for firefighters

Airtight sealed containers may rupture explosively if heated.

Special protective equipment: Self-contained breathing apparatus, chemical-resistant protective clothing.

Additional information: Brand residues and contaminated firefighting water must be disposed according to the official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Ensure adequate ventilation.

Use personal protective measures. Keep unprotected persons away.

Avoid skin and eye contamination.

6.2 Environmental precautions

Do not allow product to reach sewage system, water bodies or ground/soil.

In case of release of large amounts of product, it is necessary to take appropriate step to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect with non-flammable liquid absorbing material (e.g. sand, silica). Collect in lockable and labelled containers. Treat the collected material as waste. Clean the contaminated place and ventilate it.

6.4 Reference to other sections

Disposal: Section 13. Personal protective equipment: Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Follow general OSH regulations for dangerous chemical substances. Avoid contact with skin and eyes. Do not breathe vapours. Wash hands thoroughly before breaks an at the end of work. Use as intended. Keep container tightly closed. While handling the product do not eat, drink or smoke. Ensure good interior ventilation, especially at floor level (vapours are heavier then air and may pose a risk of explosion).

7.2 Conditions for safe storage, including any incompatibilities

General information:	Observe country-specific requirements for the storage of hazardous substances.
Requirements for storage rooms and containers:	Store in labelled and closed original container.
	Safely prevent any seepage into the ground.
	Store in well ventilated rooms.
	Store only outside or in explosion-proof rooms.
Storage compatibility:	Store away from oxidizing agents (organic peroxides).

Keep away from foodstuffs, beverages and food.

Additional information: Keep container tightly closed.
Protect from heat and direct sunlight.
Storage in a collecting chamber.

Recommended Storage temperature: +0°C up to + 38°C

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with community workplace exposure limits:

No components with exposure limits.

8.2 Exposure controls

General safety and hygiene measures:

Observe the usual precautions for handling chemicals.
Keep away from foodstuff, beverages and food.
Directly remove contaminated clothing.
Wash hand thoroughly before breaks an at the end of work.
Separate storage of protective clothing.
Avoid contact with skin and eyes.
Do not eat/drink/smoke/snuff during work.

Respiratory protection:

Not required with adequate ventilation.
At inadequate ventilation use respiratory protection.

Combination filter A-P2 (organic Vapours-Particles)

Hand protection:

Only use chemical protective gloves with CE labelling of Category III according to EN 374.

Selection of the glove material on consideration of the permeation times, rates of diffusion and the degradation.

Glove material:

The selection of an adequate glove not only depends on the material, but also from different other quality characteristics and varies from manufacturer to manufacturer.

Butyl rubber

Penetration time of glove material:

The exact break through time is to be learned from the manufacturer and must be maintained. The break through time is dependent of the activity and usage time

Eye protection:

Tightly sealed goggles

Body protection:

Protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	Liquid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.

Safety relevant basic data:

Parameters		**Unit**	**Remark**
Density:			
Bulk density:			No data available
pH value:	7		
Melting point/Melting range:			No data available
Boiling point/Boiling range:			No data available
Flash point:	110	°C	
Inflammability (solid/gaseous)			not relevant
Explosion dangerousness:			No data available
lower Explosion limit:			No data available
upper Explosion limit:			No data available
Ignition temperature:			No data available
Decomposition temperature:	199,7	°C	
Oxidising potential:			No data available
Vapour pressure:			No data available
Rate of vaporization:			No data available
Water solubility:			negligible
Liposolubilty:			No data available
Soluble in:			No data available
Distribution coefficient:			No data available
n-Octanol/Water:			No data available
Viscosity:	600	mPas	Brookfield
Solvent separation test:			No data available
Solvent content:			No data available

9.2 Other information

No further relevant information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

High temperature may trigger polymerization.

10.2 Chemical stability

The product is stable at intended storage and handling conditions.

10.3 Possible hazardous reactions

Hazardous polymerization may occur. Polymerization is exothermic and can degenerate into an uncontrolled reaction

10.4 Conditions to avoid

This product polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides and inhibitor depletion liberating heat. Avoid direct sunlight. Do not expose to ultraviolet light.

10.5 Incompatible materials

Strong oxidising or reducing agents. Free radical generators, peroxides. Oxygen scavengers, inert gas.

10.6 Hazardous decomposition products

In the event of fire: Carbon oxides, Acrylates, Meth acrylates, Nitrogen oxides, Isocyanates, Hazardous organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:	
Relevant LD/LC50 Values:	
Oral	product: LD50 (Rat) > 5000 mg/kg
Irritation to the skin:	Non-irritating.
Serious eye damage/irritation:	Causes eye irritation.
Sensitization:	No allergic reactions.
Risk of aspiration toxicity:	Based on available data the classification criteria are not met.
CMR effects:	
Carcinogenicity	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
Other information:	
STOT – Single exposure	Based on available data the classification criteria are not met.
STOT – Repeated exposure	Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity:

Product	LC 50 (cyprinus carpio): 1,2 mg/L / 96 h
	EC 50 (daphnia magna): >10 mg/L / 48 h (OECD 202)
	EC 50 (pseudokirchneriella subcapitata): > 12 mg/L / 72 h (OECD 201)

12.2 Persistence and degradability

Not readily biodegradable. (28d) biodegradation 4-14%

12.3 Bioaccumulative potential

Octanol Water partition coefficient: log Pow 3,05-4,14.

12.4 Mobility in Soil

No further information relevant.

12.5 Results of PBT and vPvB assessment

The PBT/vPvB criteria of REACH are not applicable for this substance.

12.6 Other adverse effects

No further information relevant.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods for the product:

When disposing observe the current regulatory provisions for disposing chemical waste. Store remainder in original container. Take appropriate measures to prevent release to the environment.

Disposal methods for use packing:

Reuse/recycle/liquidate empty containers in accordance with the legislation in force.

Only containers completely empty can be recycled.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

UN 3082

14.2 UN proper shipping name

ADR	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Ditrimethylolpropane tetraacrylate)
IMDG, IATA	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DITRIMETHYLOLPROPANE TETRAACRYLATE)

14.3 Transport hazard class(es)

ADR

Class: 9 Environmentally hazardous substance

IMDG, IATA

Class: 9 Environmentally hazardous substance

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant: Yes

14.6 Special precautions for user

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFROMATION

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

National regulations

This product has to be labelled in accordance with the Ordinance on Hazardous Substances in the latest version.

Employment restrictions

Observe employment restrictions for young people.

Observe employment restrictions for expectant and nursing mothers.

Other regulations, limitations and prohibitive regulations

Note:

Apply the appropriate local regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product.

SECTION 16: OTHER INFORMATION

Additional details:

Classification was made based on the data on the content of hazardous substances using the calculation method based on the guidelines of regulation 1272/2008/EC (CLP).

Relevant Phrases:

H320 Causes eye irritation.

H411 Toxic to aquatic life with long lasting effects.