



Safety Data Sheet

According to UN GHS

Date of Issue: 30/08/2022 Revision Date 30/08/2022 | Version 5.0

Product name

# PLASCOTUFF 3500 SB CURING AGENT



SURFACE TOLERANT EPOXY CURING AGENT(PEH 3500)

## SECTION 1: IDENTIFICATION

**GHS product identifier** : PLASCOTUFF 3500 SB CURING AGENT(PEH 3500)

**Other means of identification** : Two component epoxy coating curing agent.

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

**Identified uses** : Hardener component to use with PLASCOTUFF 3500 SB RANGE

**Restrictions of use** : Do not use in areas / substrates other than specified for in identified uses / TDS.

**Supplier's details** : Kansai Plascon (Pty) Ltd  
P.O. Box 4010  
Luipaardsvlei  
1743

**Emergency phone** : +2711 951 4500 (within hours of operation)  
**Cell phone** : +2783 991 5782 (outside hours of operation)  
**Facsimile** : +2711 955 2841  
**National Contact Person** : Misheck Mundondo



## SECTION 2: HAZARDOUS IDENTIFICATION

### Classification of the substance or mixture

: FLAMMABLE LIQUID - Category 2  
SERIOUS EYE DAMAGE/ IRRITATION - Category 1  
SKIN CORROSION/ IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE - Category 3  
SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE - Category 2  
ACUTE TOXICITY (ORAL) - Category 4  
ACUTE TOXICITY (DERMAL) - Category 4  
ACUTE TOXICITY (INHALATION) - Category 4  
ASPIRATION HAZARD - Category 1

### Label elements according to

: UN GHS

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H304 - May be fatal if swallowed and enters airways  
H312 - Harmful if in contact with skin.  
H315 - Causes skin irritation.  
H318 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H373 - May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

#### General

: P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.

### Prevention

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been



read and understood.

P210 - Keep away from heat/sparks/open flames/hot surfaces.

– No smoking.

P260 - Do not breathe vapor.

P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink, or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection or face protection.

## Response

: P317 – Get medical help.

P319 - Get medical help if you feel unwell.

P331 - Do NOT induce vomiting.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage. Hazardous to the aquatic environment.

P301+313 - IF SWALLOWED: Get medical advice/attention.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+313 - If eye irritation persists get medical advice/attention.

P370+380 - In case of fire: Evacuate area.

## Storage

: P405 – Store locked up.

P410 - Protect from sunlight.

P403 + P235 - Store in a well-ventilated place. Keep cool.

P402 + P404 – Store in a dry place. Store in a closed container.



**Disposal** : P501 - Dispose of contents/containers in accordance with local regulation

**Other hazards which do not result in classification** : None identified.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/mixture** : Mixture

**Other means of identification** : A two component epoxy curing agent.

#### CAS number/other identifiers

**CAS number** : Not applicable.

Ingredient name	CAS number	%	UN GHS Classification
Xylene	1330-20-7	10.0-15.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
n-Butanol (dry basis)	71-36-3	<2.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 1, H318 STOT SE 3, H 335, H336
Ethyl Benzene	100-41-4	20.0-25.0	Flam.Liq.2, H225 Acute.Tox.4, H332 STOT-RE,H373 Asp.Haz.1,H304

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: FIRST AID MEASURES

#### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persists.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.



Skin contact : Remove contaminated clothing and shoes. Wash contaminated skin with soap or a recognised skin cleaner and plenty of water. Avoid the use of solvents. Get medical attention if symptoms persist. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

**Most important symptoms/ effects, acute and delayed**

Potential acute health effects

Eye contact : Causes serious eye irritation.  
Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.  
Skin contact : Harmful in contact with skin. Causes skin irritation.  
Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include pain or irritation, watering or redness.  
Inhalation : Adverse symptoms may include nausea or vomiting, headache.  
Skin contact : Adverse symptoms may include irritation or redness.  
Ingestion : Adverse symptoms may include nausea or vomiting, headache.

**Indication of immediate medical attention and special treatment needed, if necessary**

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
Specific treatments : No specific treatment.  
Protection of first aiders : No action shall be taken involving any personal risk or without Suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person





providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire such as dry powder, CO2, water spray (fog) or foam. Use fog to cool and control.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from from the chemical

: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures**

For non-emergency





personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

**Methods and materials for containment and cleaning up**

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking and



smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not reuse container.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Occupational exposure limits

Ingredient name	Exposure limits
Xylene	<b>OHSA:</b> TWA: OEL-RL 100 ppm; 435 mg/m <sup>3</sup> STEL: OEL-RL 150 ppm; 650 mg/m <sup>3</sup>
n-Butanol (dry basis)	<b>OHSA:</b> TWA: OEL-RL 100 ppm; 300 mg/m <sup>3</sup> STEL: OEL-RL 50 ppm; 150 mg/m <sup>3</sup>
Ethyl Benzene	<b>OHSA:</b> TWA: OEL-RL 100 ppm; 435 mg/m <sup>3</sup> STEL: OEL-RL 125 ppm; 545 mg/m <sup>3</sup>

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may





be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

Hygiene measures

: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Avoid direct contact. Never touch eyes with dirty hands or gloves. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be always worn when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this



product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary e.g., in case of insufficient ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour : Yellowish-brown

Odour (Threshold) : No data available

Melting point : Not applicable

Boiling point : No data available

Flammability (gas, liquid, solid) : No data available

Lower and upper explosive (flammable) limits : No data available

Flash point : 23°C

Auto-ignition Temperature : No data available

Decomposition Temperature : No data available

pH : Not applicable

Viscosity : 135 - 140KU (typical)

Solubility : Soluble in organic solvents, insoluble in water



Partition coefficient, n-octanol/water	: No data available
Evaporation rate	: No data available
Vapour pressure	: No data available
Relative density	: 0.92kg/l (typical)
Vapour density	: No data available
Particle characteristics	: No data available

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions:	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from heat. Keep away from flames and sparks
Incompatible materials	: No available data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Xylene	LC50 Inhalation Gas	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
n-Butanol (dry basis)	LD50 Oral	Rat	790 mg/kg	-
	LC50 Inhalation	Rat	8000 mg/l	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
Ethyl Benzene	LD50 Dermal	Rabbit	15.433 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-



Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Eyes - Irritant	Rabbit	-	87 mg	Mild irritation
	Skin - Irritant	Rabbit	-	100 %	Moderate irritation
n-Butanol (dry basis)	Skin - irritation	Rabbit	-	24 hours	Irritation
	Eye - irritation	Rabbit	-	-	Blindness
Ethyl Benzene	Skin - Irritant	Rabbit	-	24 hours	-
	Eye - Irritant	Rabbit	-	-	-

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target Organs
n-Butanol (dry basis)	Category 3	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

Ingredient name	Category	Route of exposure	Target Organs
Ethyl Benzene	Category 2	Not determined	Not determined

Aspiration hazard

Ingredient name	Result
Ethyl Benzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Inhalation, skin, and eye contact.

Potential acute health effects

- Eye contact : Causes serious eye irritation.
- Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
- Skin contact : Harmful in contact with skin. Causes skin irritation.
- Ingestion : Harmful if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical, and toxicological characteristics

- Eye contact : Adverse symptoms may include pain or irritation, watering or redness.
- Inhalation : Adverse symptoms may include nausea or vomiting, headache, respiratory irritation, drowsiness/fatigue, or dizziness/vertigo.
- Skin contact : Adverse symptoms may include irritation or redness.
- Ingestion : May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure

Potential Chronic health effects

General : May cause damage to organs through prolonged or repeated



exposure  
 Carcinogenicity : No known significant effects or critical hazards.  
 Mutagenicity : No known significant effects or critical hazards.  
 Teratogenicity : No known significant effects or critical hazards.  
 Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.

Acute toxicity estimates  
 No data available

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity

Ingredient name	Result	Species	Exposure
Xylene	Acute LC50 8500 ug/l Aquatic Acute LC50 3300 to 4093 ug/l Fish	Crustaceans - Palaemonetes Pugio Oncorhynchus mykiss - 0.6 g	48 hours 96 hours
n-Butanol (dry basis)	LC50 1730 mg/l Fish EC50 1983 mg/l Aquatic Acute EC50 >500 mg/l Algae	Pimaphales promelas Daphnia magna Desmondasmus	96 hours 48 hours 72 hours
Ethyl Benzene	Acute LC50 4.2 mg/l Fish Acute EC50 1.8-2.4 mg/l Aquatic Acute EC50 4.9 mg/l Algae	Oncorhynchus mykiss Daphnia magna Skeletonema costatum	96 hours 48 hours 72 hours

Persistence and degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene	Fresh water <28 days	1 to 2 day(s)	-
Ethyl Benzene	-	-	70-80 Readily

Bio accumulative potential

Ingredient name	Log Pow	BCF	Potential
Xylene	3.12	20	Low
n-Butanol (dry basis)	0.785	0.38	Low
Ethyl Benzene	3.15	15	Low

Mobility in soil

Soil/ water partition  
 coefficient (KOC) : No data available.  
 Mobility : No data available.  
 PBT/vPvB data : P: No data available.  
 B: No data available.








Other adverse effects : T: No data available.  
: No known significant effects or critical hazards.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: TRANSPORT INFORMATION**

	Transportation - road - SANS 10228:2012	Transportation- Maritime - IMO/ IMDG	Transportation- Air – IATA
UN number	1263	1263	1263
UN proper shipping name	Paint	Paint	Paint
Transport hazard class(es)	3 	3 	3 
Packing group	III	III	III
Environmental Hazards	Environmentally hazardous	Marine pollutant	Environmentally hazardous
Additional information	No data available	Emergency schedules (EmS) F-E, S-E	Passenger and Cargo Aircraft Ltd QTY: Quantity limitation: 1L



			Packaging instructions: Y341 <b>Passenger and Cargo Aircraft:</b> Quantity limitation: 5L Packaging instructions: 353 <b>Cargo Aircraft Only:</b> Quantity limitation: 60L Packaging instructions: 364
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No data available	No data available	No data available

**SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations specific for the product

: Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances. Relevant information regarding restrictions: None known. EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC Other National regulations: None. Standards used for PPE recommendations in Section 8: NIOSH-National Institute for Occupational Health and Safety (USA) EN 166 European standard which concerns the area of eye protection. EN 374-3 European standards for permeation and penetration. EN 141/EN 143 European standards for gas mixtures to remove specified gases and vapours or combined filters for removing solids, and/or liquid particles and specified gases and vapours.

**SECTION 16: OTHER INFORMATION**

**History**

Date of review : 30/08/2022

Date of review	Version	Amendments
30/08/2022	5.0	GHS Purple Book version 9 alignment
28/04/2021	4.0	GHS compliant SDS
16/05/2019	3.0	-



Date of previous issue : 28/04/2021

Key to abbreviations : ATE = Acute Toxicity Estimate  
BCP Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OHSA = Occupational Health and Safety Act, 1993 (South Africa)  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
UN = United Nations

References : Supplier Safety Data Sheets.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Legal disclaimer:

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