



Safety Data Sheet

According to UN GHS

Date of Issue: 30/08/2022 Revision Date 30/08/2022 | Version 4.0

Product name

PLASCOTHANE 9000 SB CURING AGENT

POLYURETHANE ACRYLIC CURING AGENT(PRH 9)



SECTION 1: IDENTIFICATION

GHS product identifier : PLASCOTHANE 9000 SB CURING AGENT(PRH 9)

Other means of identification : Aliphatic polyisocyanate catalyst for 2 pack polyurethane systems.

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

Identified uses : Used to catalyse the PLASCOTHANE 9000 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

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National Contact Person : Misheck Mundondo



SECTION 2: HAZARDOUS IDENTIFICATION

Classification of the substance or mixture	: FLAMMABLE LIQUID - Category 2 SERIOUS EYE DAMAGE/ IRRITATION - Category 2 SKIN CORROSION/ IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE - Category 3 ACUTE TOXICITY (DERMAL) - Category 4 ACUTE TOXICITY (INHALATION) - Category 4
Label elements according to	: UN GHS
Hazard pictograms	:  
Signal word	: Danger
Hazard statements	: H225 - Highly flammable liquid and vapour. H312 - Harmful if in contact with skin. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H335 - May cause respiratory irritation
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. P240 - Ground/bond container and receiving equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe vapor. P261 - Avoid breathing vapours.

P262 - Do not get in eyes, on skin, or on clothing.
P263 - Wash contaminated clothing before reuse.
P264 - Wash 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.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284 - In case of inadequate ventilation wear respiratory protection.

Response

: P314 - Get medical advice or attention if you feel unwell.
P362 - Take off contaminated clothing and wash before reuse.
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+378 - In case of fire: Use fire extinguisher.

Storage

: P410 - Protect from sunlight.
P402+404 - Store in a dry place. Store in a closed container.
P403+235 - Store in a well-ventilated place.

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** : Aliphatic polyisocyanate catalyst for 2 pack polyurethane systems.**CAS number/other identifiers****CAS number** : Not applicable.

Ingredient name	CAS number	%	UN GHS Classification
Hexamethylene-1,6-diisocyanate Homopolymer	28182-81-2	70.0-75.0	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335
Xylene	1330-20-7	25.0-30.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Ethyl Benzene	100-41-4	2.00-5.00	Flam.Liq.2, H225 Acute.Tox.4, H332

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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention adverse health effects persist or are severe. If unconscious, place in airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

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. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

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.
Skin contact	: Harmful in contact with skin. Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include pain or irritation, watering or redness.
Inhalation	: Adverse symptoms may include nausea or vomiting or Headache, respiratory irritation, drowsiness/fatigue or dizziness/vertigo, reduced.
Skin contact	: Adverse symptoms may include irritation or redness.
Ingestion	: No known significant effects or critical hazards.

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 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 (CO2)
carbon monoxide (CO)
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). Water polluting material. May be harmful to the environment if released in large quantities.

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.

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
Hexamethylene-1,6-diisocyanate Homopolymer	TRGS 900: 0,005 ppm 0,035 mg/m ³
Xylene	OHSA: TWA: OEL-RL 100 ppm; 435 mg/m ³ STEL: OEL-RL 150 ppm; 650 mg/m ³
Ethyl Benzene	OHSA: TWA: OEL-RL 100 ppm; 435 mg/m ³ STEL: OEL-RL 125 ppm; 545 mg/m ³

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

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

: Avoid direct contact. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times 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	: Avoid direct contact. 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	: Colourless
Odour	: No data available
Odour threshold	: No data available
pH	: Not applicable
Melting point	: Not applicable
Boiling point	: No data available
Flash point	: 24°C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower and upper explosive (flammable) limits	: No data available
Vapor pressure	: No data available



Vapor density	: No data available
Relative density	: 1.06 g/ml
Solubility	: Soluble in most organic solvents, insoluble in water
Partition coefficient, n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: Inert - no reaction with fire-fighting water.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat or sources of ignition.
Incompatible materials	: Any reactive substances – oxidisers in particular.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Hexamethylene- 1,6-diisocyanate Homopolymer	LD50 Oral	Rat	>5.000 mg/kg	-
	LD50 Oral	Rat, male	746 mg/kg	-
	LD50 Dermal	Rat, male/ female	>7.000 mg/kg	-
	LC50 Inhalation	Rat, male/ female	124 mg/m ³	4 hours, test atmosphere: vapour



Ingredient name	Result	Species	Dose	Exposure
Xylene	LC50 Inhalation Gas LD50 Oral	Rat Rat	5000 ppm 4300 mg/kg	4 hours -
Ethyl Benzene	LD50 Dermal LD50 Oral	Rabbit Rat	15.433 mg/kg 3500 mg/kg	- -

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene-1,6-diisocyanate Homopolymer	Primary skin irritation Primary mucosae irritation Skin sensitization according to Magnusson/Kligmann (maximizing test).	Rabbit Rabbit Guinea pig	- - -	- - -	Slight irritant Slight irritant Positive
Xylene	Eyes - Irritant	Rabbit	-	87 mg	Mild irritation
Hexamethylene-1,6-diisocyanate Homopolymer	Primary skin irritation Primary mucosae irritation Skin sensitization according to Magnusson/Kligmann (maximizing test).	Rabbit Rabbit Guinea pig	- - -	- - -	Slight irritant Slight irritant Positive
	Skin - Irritant	Rabbit	-	100 %	Moderate irritation
Ethyl Benzene	Skin - Irritant Eye - Irritant	Rabbit Rabbit	- -	24 hours -	- -

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target Organs
Hexamethylene-1,6-diisocyanate Homopolymer	Category 3	Not determined	Narcotic effects. Central nervous system

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

No data available



Information on the likely
routes of exposure

: Inhalation, skin, and eye contact.

Potential acute health effects

Eye contact

: Causes serious eye damage.

Inhalation

: Harmful if inhaled. May cause respiratory irritation.

Skin contact

: Harmful in contact with skin. Causes skin irritation.

Ingestion

: No known significant effects or critical hazards.

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 or headache, respiratory irritation, drowsiness/fatigue or dizziness/vertigo, reduced.

Skin contact

: Adverse symptoms may include irritation or redness.

Ingestion

: No known significant effects or critical hazards.

Potential Chronic health effects

General

: No known significant effects or critical hazards.

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
Hexamethylene-1,6-diisocyanate Homopolymer	Acute LC50, >= 82,8 mg/l Acute EC50 >= 89,1 mg/l Acute EC50 > 77,4 mg/l Acute EC50, 842 mg/l	Fish - Danio rerio Aquatic - Daphnia magna Algae - Desmodesmus subspicatus Bacteria - Activated sludge	96 hours 48 hours 72 hours 3 hours
Xylene	Acute LC50 8500 ug/l Acute LC50 3300 to 4093 ug/l	Aquatic - Crustaceans - Palaemonetes Fish - Pugio Oncorhynchus mykiss - 0.6 g	48 hours 96 hours



Ingredient name	Result	Species	Exposure
Ethyl Benzene	Acute LC50 4.2 mg/l Acute EC50 1.8-2.4 mg/l Acute EC50 4.9 mg/l	Fish - Oncorhynchus mykiss Aquatic - Daphnia magna Algae - Skeletonema costatum	96 hours 48 hours 72 hours

Persistence and degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hexamethylene-1,6-diisocyanate Homopolymer	Aerobic Inoculum: activated sludge, 28 days	-	42 %, not readily degradable
Xylene	Fresh water <28 days	1 to 2 day(s)	-

Bio accumulative potential

Ingredient name	LogPow	BCF	Potential
Hexamethylene-1,6-diisocyanate Homopolymer	-	3.2	Low
Xylene	3.12	20	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.

T No data available.

Other adverse effects

: 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 at all times 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	No	No	No
Additional information	No data available	Emergency schedules (EmS) F-E, S-E	Passenger and Cargo Aircraft Ltd QTY: Quantity limitation: 1 L Packaging instructions: Y341 Passenger and Cargo Aircraft: Quantity limitation: 5 L Packaging instructions: 353 Cargo Aircraft Only: Quantity limitation: 60 L 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	4.0	GHS Purple Book version 9 alignment
11/07/2018	3.0	GHS compliant SDS

Date of previous issue : 11/07/2018

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)



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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.

