



Safety Data Sheet

According to UN GHS

Date of Issue: 30/08/2022 Revision Date 30/08/2022 | Version 8.0

Product name

ACRYLINE TOPCOAT SB CURING AGENT



POLYURETHANE TOPCOAT CURING AGENT(APU 201,202,203)

SECTION 1: IDENTIFICATION

GHS product identifier : ACRYLINE TOPCOAT SB CURING AGENT
(APU 201,202,203)

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 cure ACRYLINE TOPCOAT SB(ADM 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)
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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
ASPIRATION HAZARD - Category 1
ACUTE TOXICITY (DERMAL) - Category 4
ACUTE TOXICITY (INHALATION) - Category 4
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE - Category 3
AQUATIC TOXICITY (CHRONIC) - Category 2

Label elements according to : UN GHS

Hazard pictograms : 

Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
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.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long-lasting effects.

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.
- P233 - Keep container tightly closed .
- P240 - Ground/bond container and receiving equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves, protective clothing, eye protection or face protection.
- P235 + 410 - Keep cool. Protect from sunlight

Response

- : P319 - Get medical advice or attention if you feel unwell.
- P302+352 - IF ON SKIN: Wash with plenty of water.
- P303+361+353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P332+313 - If skin irritation occurs get medical advice/attention.
- P337+313 - If eye irritation persists get medical advice/attention.
- P342+311 - If experiencing respiratory symptoms. Get medical advice/attention.
- P370+378 - In case of fire: Use fire extinguisher.

Storage

- : P405 - Store locked up.
- P410 - Protect from sunlight.
- P403+233 - Store in a well-ventilated place. Keep container tightly closed.

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
Solvent naphtha (petroleum), light arom.	64742-95-6	25.0-30.0	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335, H336
n-butyl acetate	123-86-4	10.0-15.0	Flam. Liq. 3, H226 STOT-SE. 3, H336
Xylene	1330-20-7	5.0-10.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-methoxy-1-methylethyl acetate	108-65-6	5.0-10.0	Flam. Liq. 3, H226
Ethyl Benzene	100-41-4	<2.00	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. 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 : May cause respiratory irritation. May cause drowsiness or dizziness.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No Known critical hazards.
Inhalation : Adverse symptoms may include nausea or vomiting, headache, drowsiness/ fatigue, or dizziness/vertigo, unconsciousness, reduced fetal weight, increase in fetal deaths skeletal malformations.
Skin contact : Adverse symptoms may include irritation or redness, reduced fetal weight, increase in fetal deaths or skeletal malformations.
Ingestion : May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure, reduced fetal weight, increase in fetal deaths or skeletal malformations.

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
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
Solvent naphtha (petroleum), light arom.	OHSA : TWA: OEL-RL 100 ppm
n-butyl acetate	OHSA: TWA: OEL-RL 200 ppm; 950 mg/m ³ STEL: OEL-RL 250 ppm; 1190 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

: 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 : Clear
- Odour (Threshold) : Pungent
- Melting point : Not applicable
- Boiling point : 125°C
- 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 : 11 – 13seconds (typical) DIN Cup No. 4



Solubility : Soluble in organic solvents

Partition coefficient,
n-octanol/water : No data available

Evaporation rate : No data available

Vapour pressure : No data available

Relative density : 0.83 g/ml (typical)

Vapour density : 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 : No available data

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
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	>6800 mg/kg	-
	LD50 Dermal	Rabbit	>3400 mg/kg	-
	LC50 Inhalation	Rat	>10.2 m/l	4 hours
Xylene	LD50 Dermal	Rabbit	<2000 mg/kg	-
	LC50 Inhalation	Rat	<10.0 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-



Ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LD50 Dermal	Rabbit	>14.112 mg/kg	-
	LC50 Inhalation	Rat	>21 mg/l	4 hours
	LD50 Oral	Rat	10760 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
Solvent naphtha (petroleum), light arom.	Skin - Irritation	Rabbit	0.5 <3.	-	Mild irritant
	Eyes - Irritation	Rabbit	6 <15	-	Mild irritant
Xylene	Skin - Irritation	Rabbit	-	87 mg	Mild irritant
	Eyes - Irritation	Rabbit	-	100 %	Moderate irritant
n-butyl acetate	Skin - Irritation	Rabbit	-	4 hours	Not irritant
	Eye - Irritation	Rabbit	-	-	Not irritant
Ethyl Benzene	Skin - Irritation	Rabbit	-	24 hours	Mild irritant
	Eyes - Irritation	Rabbit	-	-	Moderate irritant

Specific target organ toxicity (single exposure)

Ingredient name	Category	Route of exposure	Target Organs
n-butyl acetate	Category 3	Not determined	Not determined
Solvent naphtha (petroleum), light arom.	Category 3	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

Ingredient name	Result
Solvent naphtha (petroleum), heavy arom.	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 : Causes skin irritation. May cause an allergic skin reaction
 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, headache.

Skin contact : Adverse symptoms may include irritation or redness.

Ingestion : May be fatal if swallowed and enters airways

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
n-butyl acetate	Acute LC50 18 mg/l	Fish - Pimephales promelas	96 hours
	Acute EC50 44 mg/l	Organic - Daphnia magna	48 hours
	Acute EC50 674,7 mg/l	Algae - Desmodesmus	72 hours
Xylene	Acute LC/EC50 8.05 mg/l	Fish - Rainbow trout	96 hours
	Acute LC/EC50 >1 mg/l	Aquatic - Daphnia magna	48 hours
	Acute LC/EC50 >45 mg/l	Algae - Green algae	3 hours
Ethyl Benzene	Acute LC50 4.2 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 1.8-2.4 mg/l	Aquatic - Daphnia magna	48 hours
	Acute EC50 4.9 mg/l	Algae - Skeletonema costatum	72 hours

Persistence and degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	aerobic - Exposure time 28 days	-	Result: 83 % Readily biodegradable
Xylene	Fresh water <28 days	1 to 2 day(s)	-
Ethylbenzene	Fresh water 1 to 4 days	1 to 2 day(s)	Readily



Bio accumulative potential

Ingredient name	LogPow	BCF	Potential
Xylene	3.12	20	Low
Solvent naphtha (petroleum), light arom.	-	<100	-

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 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



	Transportation - road - SANS 10228:2012	Transportation- Maritime - IMO/ IMDG	Transportation- Air – IATA
Transport hazard class(es)	3 	3 	3 
Packing group	II	II	II
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: 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	8.0	GHS Purple Book version 9 alignment
05/04/2018	7.0	GHS compliant SDS

Date of previous issue : 05/04/2018

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)
- 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:



ACRYLINE TOPCOAT SB CURING AGENT

(APU 201,202,203)

UN1263 PAINT

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