SAFETY DATA SHEET



Date of issue 16 February 2024

Version 1.02

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : AMERLOCK/SIGMACOVER 400 HARDENER : 000001194604
- : 00466371; 00466891
- : Liquid.

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

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	: PPG INDUSTRIES ARGENTINA S.R.L. Calle 9 y Del gasoducto N° 3810 Parque Industrial Pilar -(CP 1629) Pilar Provincia de Buenos Aires - Argentina Teléfono : 54-0230 4529700 Fax : 54-0230 4529706
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: Centro de intoxicaciones 0800-333-0160 /CIQUIME 0800-222-2933

Section 2. Hazards identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1	E) (Respiratory tract
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Section 2. Hazards identification

Target organs	: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS).
	Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, cardiovascular system, upper respiratory tract, bones, eye, lens or cornea.
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 14.1%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 59.8%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 70.6%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 69.9%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Flammable liquid and vapor. May be harmful if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation.

Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention	: Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Avoid breathing vapor.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

result in classification

Other hazards which do not : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: 00466371; 00466891

CAS number/other identifiers

CAS number	i Not applicable.
Ingredient name	

Ingredient name	%	CAS number
✓alc , not containing asbestiform fibres	30 - <60	14807-96-6
4-methylpentan-2-one	10 - <12.5	108-10-1
Polyaminoamide	7 - <10	68082-29-1
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	5 - <7	68515-49-1
benzyl alcohol	3 - <5	100-51-6
cyclohexanone	3 - <5	108-94-1
3-aminomethyl-3,5,5-trimethylcyclohexylamine	3 - <5	2855-13-2
4-nonylphenol, branched	3 - <5	84852-15-3
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	3 - <5	38294-64-3
2,3-epoxypropane, reaction products with 3-aminomethyl-		
3,5,5-trimethylcyclohexylamine		
2-methylpropan-1-ol	2 - <3	78-83-1
2,4,6-tris(dimethylaminomethyl)phenol	1 - <2	90-72-2
Fatty acids, tall-oil, reaction products with diethylenetriamine	0.5 - <1	61790-69-0
salicylic acid	0.2 - <0.5	69-72-7

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.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. 		
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 		
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.		
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.		
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Section 4. First aid measures

Specific treatments	1	
		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.
Potential acute health effects		
Eye contact	÷	Causes serious eye damage.
Inhalation	1	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	÷	May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. 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 oxides nitrogen oxides halogenated compounds 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, pro	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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Section 6. Accide	ental release measures			
For emergency responders	: If specialized clothing is required to information in Section 8 on suitable information in "For non-emergency	e and unsuitable materials		
Environmental precautions	: Avoid dispersal of spilled material a drains and sewers. Inform the relevent environmental pollution (sewers, way May be harmful to the environment	vant authorities if the proc aterways, soil or air). Wa	luct has cause ter polluting ma	d aterial.
Methods and materials for o	containment and cleaning up			
Small spill	: Stop leak if without risk. Move cont and explosion-proof equipment. Dil Alternatively, or if water-insoluble, a appropriate waste disposal containe contractor.	lute with water and mop u bsorb with an inert dry m	ip if water-solu aterial and plac	ible. ce in an
Large spill	: Stop leak if without risk. Move cont and explosion-proof equipment. Ap sewers, water courses, basements effluent treatment plant or proceed combustible, absorbent material e.g and place in container for disposal a Dispose of via a licensed waste disp material may pose the same hazard emergency contact information and	oproach release from upw or confined areas. Wash as follows. Contain and o g. sand, earth, vermiculite according to local regulati posal contractor. Contan d as the spilled product. I	vind. Prevent en spillages into collect spillage or diatomaced ions (see Secti ninated absorb Note: see Secti	entry into an with non- ous earth ion 13). ent
Section 7. Handli	ng and storage			
Precautions for safe handling	: Put on appropriate personal prote history of skin sensitization proble			

Precautions for safe handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits				
Talc , not containing asbest	Social Security. Arg 295,11/2003) (Argent	entina (Resolution tina, 11/2003). urs. Form: Respirable m; Length / diameter etermined by the od at 400 - 450 x ubjective) using			
4-methylpentan-2-one	Social Security. Argo 295,11/2003) (Argent	Ministry of Labor, Employment and Social Security. Argentina (Resolution 295,11/2003) (Argentina, 11/2003). TWA: 50 ppm 8 hours.			
cyclohexanone	Ministry of Labor, Er Social Security. Arg 295,11/2003) (Argent Absorbed through s TWA: 25 ppm 8 hou	mployment and entina (Resolution tina, 11/2003). kin. rs.			
2-methylpropan-1-ol	Ministry of Labor, Er Social Security. Argo 295,11/2003) (Argent TWA: 50 ppm 8 hou	entina (Resolution tina, 11/2003).			
Recommended monitoring procedures	Reference should be made to appropriate monitoring standa national guidance documents for methods for the determinat substances will also be required.				
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures ventilation or other engineering controls to keep worker exports contaminants below any recommended or statutory limits. Talso need to keep gas, vapor or dust concentrations below a limits. Use explosion-proof ventilation equipment.	sure to airborne he engineering controls			
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.				
ndividual protection measu					
Hygiene measures	Wash hands, forearms and face thoroughly after handling ch before eating, smoking and using the lavatory and at the end Appropriate techniques should be used to remove potentially Contaminated work clothing should not be allowed out of the contaminated clothing before reusing. Ensure that eyewash showers are close to the workstation location.	d of the working period. / contaminated clothing. e workplace. Wash			
Eye protection: Chemical splash goggles and face shield.Skin protection					

Section 8. Exposure controls/personal protection

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Hand protection	: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection Other skin 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. 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	: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance			
Physical state	:	Liquid.	
Color	:	Clear.	
Odor	:	Amine-like. [Strong]	
рН	:	Not applicable.	
Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 37°C (98.6°F)
Evaporation rate	:	Not available.	
Flammability (solid, gas)	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.36	
Solubility/ico)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	:	Not available.	

English (US)

Argentina

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Section 9. Physic	cal and chemical proper	ties		
Viscosity	: Kinematic (40°C (104°F)): >21 mr	n²/s (>21 cSt)		
Viscosity	: 40 - <60 s (ISO 6mm)			
Section 10. Stabi	lity and reactivity			
Reactivity	: No specific test data related to rea	activity available for this p	roduct or its ing	gredients.
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storag	e and use, hazardous rea	actions will not	occur.
Conditions to avoid	: When exposed to high temperatur products.	res may produce hazardo	ous decomposi	tion
Incompatible materials	: Keep away from the following mat oxidizing agents, strong alkalis, st		xothermic reac	tions:
Hazardous decomposition products	: Depending on conditions, decomp carbon oxides nitrogen oxides ha			

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
∯-methylpentan-2-one	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
1,2-Benzenedicarboxylic	LD50 Dermal	Rabbit	16000 mg/kg	-
acid, di-C9-11-branched				
alkyl esters, C10-rich				
	LD50 Oral	Rat	>60000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and mists	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine			-	
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl)				
phenol				
-	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
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Section 11. Toxico	ologica	linfo	ormat	ion				
salicylic acid	LD50 Oral			Rat		0.89	1 g/kg	-
Conclusion/Summary rritation/Corrosion	: There ar	e no da	ata availa	ble on the mi	xture itse	elf.		
Product/ingredient name	Result			Species	Scor	е	Exposure	Observation
4-nonylphenol, branched 2,4,6-tris (dimethylaminomethyl) phenol	Skin - Erythema/Eschar Skin - Visible necrosis		Rabbit Rabbit	4 -		- 4 hours	- 7 days	
Conclusion/Summary					•			
Skin	: There ar	re no da	ata availa	ble on the mi	xture itse	elf.		
Eyes				ble on the mi				
Respiratory	: There ar	re no da	ata availa	ble on the mi	xture itse	elf.		
Sensitization								
Product/ingredient name	Route of exposure		Species			Resu	ilt	
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	skin		Guinea	big		Sens	sitizing	
Conclusion/Summary								
Skin	: There ar	e no da	ata availa	ble on the mi	xture itse	elf.		
Respiratory	: There ar	e no da	ata availa	ble on the mi	xture itse	elf.		
<u>Autagenicity</u>								
Not available.								
Conclusion/Summary Carcinogenicity	: There ar	e no da	ata availa	ble on the mi	xture itse	elf.		
Not available.								
	. There ex			hla an tha mi		. IE		
Conclusion/Summary	: There ar	re no da	ata avalla	ble on the mi	xture itse	eit.		
<u>Classification</u>								
Product/ingredient name	OSHA	IARC	NTP					
4-methylpentan-2-one cyclohexanone	-	2B 3	-					
Carcinogen Classification of	code:							
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: +		inogen; F	Reasonably	anticipated to	be a huma	an carcii	nogen	
Not listed/not regula	ated: -							
Reproductive toxicity Not available.								
Conclusion/Summary	• There ar	o no da	ata availa	ble on the mi	vturo iter	lf		
			iia avalid					
<mark>eratogenicity</mark> Not available.								
Conclusion/Summary	: There ar	e no da	ata availa	ble on the mi	xture itse	elf.		

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Narcotic effects
cyclohexanone	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Date of issue

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Fatty acids, tall-oil, reaction products with diethylenetriamine	Category 2	oral	-

Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, cardiovascular system, upper respiratory tract, bones, eye, lens or cornea.

Aspiration hazard

Name	Result
3 1	ASPIRATION HAZARD - Category 2
benzyl alcohol	ASPIRATION HAZARD - Category 2
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure	: Not available.
Potential acute health effect	t <u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. May be harmful in contact with skin. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
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Section 11. Toxicological information

Skin contact :	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion :	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Conclusion/Summary	:	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>S</u>
Not available.		
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
MERLOCK/SIGMACOVER 400 HARDENER	4277.6	3406.1	54805.2	31.5	2.9
4-methylpentan-2-one	2080	N/A	N/A	11	1.5
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	N/A	16000	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
cyclohexanone	1800	1100	8000	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	2500	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
Fatty acids, tall-oil, reaction products with diethylenetriamine	500	N/A	N/A	N/A	N/A
salicylic acid	891	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
•••	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours
salicylic acid	Acute EC50 1147.57 mg/l Fresh water	Daphnia - <i>Daphnia longispina</i> - Neonate	48 hours
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	21 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
4-methylpentan-2-one	OECD 301F	83 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4-methylpentan-2-one benzyl alcohol	-		-		Readily Readily	

Bioaccumulative potential

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LIIG	1311		

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
-methylpentan-2-one	1.9	-	Low
1,2-Benzenedicarboxylic	8.8	-	High
acid, di-C9-11-branched			
alkyl esters, C10-rich			
benzyl alcohol	0.87	-	Low
cyclohexanone	0.86	-	Low
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine			
4-nonylphenol, branched	5.4	251.19	Low
4,4'-Isopropylidenediphenol,	-	5.13	Low
oligomeric reaction products			
with 1-chloro-			
2,3-epoxypropane, reaction			
products with 3-aminomethyl-			
3,5,5-trimethylcyclohexylamine	1		
2-methylpropan-1-ol 2,4,6-tris	0.219	-	Low Low
(dimethylaminomethyl)phenol	0.219	-	LOW
salicylic acid	2.21 to 2.26		Low
Salicylic aciu	2.21 10 2.20	-	LOW

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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. 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. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN2920	UN2920	UN2920	UN2920
UN proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
	(3-aminomethyl- 3,5,5-trimethylcyclohexylamine,	(3-aminomethyl- 3,5,5-trimethylcyclohexylamine,	(3-aminomethyl- 3,5,5-trimethylcyclohexylamine,	(3-aminomethyl- 3,5,5-trimethylcyclohexylamine,
	4-methylpentan-2-one)	4-methylpentan-2-one)	4-methylpentan-2-one)	4-methylpentan-2-one)
Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
Packing group	II	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

to IMO instrume	nts		
Transport in bulk according : Not applicable.			
Special precaution	ons for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.		
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.		
Risk number	: 83		
Brazil	: None identified.		
UN	: None identified.		
Additional inform	nation		

Section 15. Regulatory information

Safety, health and	1	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

Section 16. Other information

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	EHS	

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Product nam	AMERLOCK/SIGMACO	VER 400 HARDENER			

Section 16. Other information

Key to abbreviations	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.