SAFETY DATA SHEET

SIGMACOVER 350 BAS BLACK 8000 US



Date of issue 13 November 2019

Version 7

1. Product and company identification

Product name	: SIGMACOVER 350 BAS BLACK 8000 US
Product code	: 00352820
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	: Industrial applications.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: PPG PMC Japan Co., Ltd. 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Tel : +81 78 574 2777 Fax : +81 78 576 0035
Emergency telephone number	: 078 574 2777

2. Hazards identification

GHS Classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION (Fertility) - Category 1B
	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous
	system (CNS), kidneys, liver, respiratory system) - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (immune system,
	kidneys, lungs, nervous system, respiratory system) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	

Signal word

: Danger

2. Hazards identifi	cation
Hazard statements	 Flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory system) Causes damage to organs through prolonged or repeated exposure. (immune system, kidneys, lungs, nervous system, respiratory system) Toxic to aquatic life.
Precautionary statements	Harmful to aquatic life with long lasting effects.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical 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 physician.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
ENCS number	: Not available.

Ingredient name	%	CAS number	ENCS
✓alc (containing no asbestos or quartz)	15 - <20	14807-96-6	Not available.
Epoxy Resin (700 <mw<=1100)< td=""><td>12.5 - <15</td><td>67924-34-9</td><td>Not available.</td></mw<=1100)<>	12.5 - <15	67924-34-9	Not available.
Xylene	10 - <12.5	1330-20-7	3-3; 3-60
Crystalline-quartz	7 - <10	14808-60-7	1-548
crystalline silica, respirable powder (>10 microns)	7 - <10	14808-60-7	1-548
Aluminium oxide	7 - <10	1344-28-1	1-23
Epoxy resin (MW ≤ 700)	5 - <7	25068-38-6	(7)-1279
Isobutyl alcohol	3 - <5	78-83-1	2-3049
Ethylbenzene	2 - <3	100-41-4	3-28; 3-60
12-hydroxyoctadecanoic acid, reaction products	1 - <2	220926-97-6	Not available.
		Japan	Page: 2/15

3 Composition/information on ingredients

3. Composition/information on	ingreaients	
with 1.3-benzenedimethanamine and		

hexamethylenediamine

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.

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.	

Most important symptoms/effects, acute and delayed

Potential acute health eff	<u>ects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Causes damage to organs following a single exposure if swallowed.
Over-exposure signs/sym	<u>iptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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

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

4. First aid measures		
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.	
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)

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 toxic to aquatic life. This material is harmful 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.

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. 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.
For emergency responders	: If specialized 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".

6. Accidental release measures

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. Use spark-proof tools and explosion-proof equipment. 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 of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. 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.

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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage : Do not store above the following temperature: 50°C (122°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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ralc (containing no asbestos or quartz)	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
Xylene	ISHL (Japan, 2/2019). TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.
Crystalline-quartz	Japan Society for Occupational Health (Japan, 5/2018). OEL-C: 0.03 mg/m ³ Form: Respirable dust
crystalline silica, respirable powder (>10 microns)	Japan Society for Occupational Health (Japan, 5/2018). OEL-C: 0.03 mg/m ³ Form: Respirable dust
Aluminium oxide	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 2 mg/m ³ 8 hours. Form: Total dust
Isobutyl alcohol	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 150 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 2/2019). TWA: 50 ppm 8 hours.
Ethylbenzene	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 217 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 2/2019). TWA: 20 ppm 8 hours.
procedures atmosphere or biological monitorial the ventilation or other control protective equipment. Reference	ents with exposure limits, personal, workplace itoring may be required to determine the effectiveness of measures and/or the necessity to use respiratory nce should be made to appropriate monitoring standards. e documents for methods for the determination of o be required.
controls or other engineering controls to any recommended or statutory	tion. Use process enclosures, local exhaust ventilation o keep worker exposure to airborne contaminants below y limits. The engineering controls also need to keep gas, elow any lower explosive limits. Use explosion-proof

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.

ventilation equipment.

Individual protection measures

8. Exposure controls/personal protection

-	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Chemical splash goggles and face shield.
Skin protection	
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	: 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.
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	: 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.

9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27.78°C (82°F)
Evaporation rate	: 0.53 (butyl acetate = 1)
Vapor pressure	:0.76 kPa (5.7 mm Hg) [room temperature]
Relative density	: 1.48
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

10. Stability and reactivity

Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Isobutyl alcohol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
-	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
, ,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Epoxy resin (MW ≤ 700)	Skin - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	-	-	-

Sensitization

•••••••••••••••••••••••••••••••••••••••	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

11. Toxicological information

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
ralc (containing no asbestos or quartz) Xylene	Category 1 Category 1	Not determined Not determined	respiratory system central nervous system (CNS), kidneys, liver and respiratory system
	Category 3	Not applicable.	Narcotic effects
Aluminium oxide	Category 3	Not applicable.	Respiratory tract irritation
Isobutyl alcohol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Ethylbenzene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Category	Route of exposure	Target organs
Category 1 Category 1	Not determined Not determined	respiratory system nervous system and respiratory system
Category 1	Not determined	immune system, kidneys and respiratory system
Category 1	Inhalation	lungs
Category 2	Not determined	hearing organs
Category 2	Inhalation	lungs
	Category 1 Category 1 Category 1 Category 1 Category 2	exposureCategory 1Not determinedCategory 1Not determinedCategory 1Not determinedCategory 1InhalationCategory 2Not determined

Name	Result		
<mark>Ky</mark> lene Ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	S	
Eye contact	:	Causes serious eye damage.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Causes damage to organs following a single exposure if swallowed.
<u>Symptoms related to the ph</u> Eye contact		ical, chemical and toxicological characteristics Adverse symptoms may include the following: pain watering redness

11. Toxicological information

Inhalation :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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

<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>:ts</u>	
General	: Causes damage to organs through prolonged or repeated exposure. 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 very low levels.	to
Carcinogenicity		to
Carcinogenicity Mutagenicity	very low levels.	to
• •	very low levels.May cause cancer. Risk of cancer depends on duration and level of exposure.	to
Mutagenicity	very low levels.May cause cancer. Risk of cancer depends on duration and level of exposure.Suspected of causing genetic defects.	to
Mutagenicity Teratogenicity	 very low levels. May cause cancer. Risk of cancer depends on duration and level of exposure. Suspected of causing genetic defects. May damage the unborn child. 	to

Numerical measures of toxicity

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)
SIGMACOVER 350 BAS BLACK 8000 US	10182.7	4383.8	N/A	20.6	171
Xylene	4300	1100	N/A	11	N/A
Epoxy resin (MW \leq 700)	2500	2500	N/A	N/A	N/A
Isobutyl alcohol	2830	2460	N/A	11	N/A
Ethylbenzene	3500	17800	N/A	17.8	N/A
12-hydroxyoctadecanoic acid, reaction products with	2500	2500	N/A	N/A	3.56
1,3-benzenedimethanamine and					
hexamethylenediamine					

t

11. Toxicological information

Other information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Isobutyl alcohol	Acute EC50 1100 mg/l	Daphnia	48 hours
Ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
12-hydroxyoctadecanoic acid,	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
reaction products with	_	subcapitata (microalgae)	
1,3-benzenedimethanamine			
and hexamethylenediamine			
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Àlgae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Poxy resin (MW ≤ 700) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	5 % - 28 da 9 % - Not re	ys eadily - 29 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>IX</mark> ylene Epoxy resin (MW ≤ 700) Ethylbenzene	-		-		Readily Not rea Readily	idily

Bioaccumulative potential

Product code 00352820

Date of issue 13 November 2019 Version 7

Product name SIGMACOVER 350 BAS BLACK 8000 US

12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
⋉ ylene	3.16	7.4 to 18.5	low	
Epoxy resin (MW \leq 700)	3	31	low	
Isobutyl alcohol	0.76	-	low	
Ethylbenzene	3.15	79.43	low	
12-hydroxyoctadecanoic acid,	>6	-	high	
reaction products with			-	
1,3-benzenedimethanamine and hexamethylenediamine				

<u>Mobility in soil</u>	
Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. з. 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.

14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	Ш	Ш
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

14. Transport information

UN	: None identified.
IMDG	: None identified.

IATA : None identified.

Special precautions 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.

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
<mark>xy</mark> lene	12.226		80
ethylbenzene	2.4296		53

<u>ISHL</u>

Use of specified chemical substances

Ingredient name	%		Reference number
Ethyl benzene		Group-2 Substances under Supervision	3-3

Label requirements

Ingredient name	%	Status	Reference number
Auminium oxide	<10	Listed	189
Crystalline silica	<10	Listed	165-2
Crystalline silica	≤10	Listed	165-2
Xylene	≤12	Listed	136
Ethylbenzene	≤2.5	Listed	70
Butanol	≤3.8	Listed	477

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Auminium oxide	<10	Listed	189
Crystalline silica	<10	Listed	165-2
Crystalline silica	≤10	Listed	165-2
Xylene	≤12	Listed	136
Ethylbenzene	≤2.5	Listed	70
Butanol	≤3.8	Listed	477

<u>Carcinogen</u>

None of the components are listed.

<u>Mutagen</u>

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15. Regulatory information

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Flammable liquid Class 3
Prevention of Tetraalkyl Lead Poisoning	: Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
Dangerous Substances	: Inflammable
Lead regulation	: Not listed
Organic solvents poisoning prevention	: Class 2

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%		Reference number
K∕ ylene	12.226	Priority assessment	125
Ethylbenzene	2.4296	Priority assessment	50

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law Concerning Prevention : Not available. of Pollution of the Ocean and Maritime Disaster

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

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st one component is not listed.
vailable.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 13 November 2019
Date of previous issue	: 10/9/2019
Version	: 7
Prepared by	: EHS
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

V Indicates information that has changed from previously issued version.

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