SAFETY DATA SHEET

Date of issue/Date of revision 22 April 2024

Version1.01

Section 1. Identification

Product code	: 000001196830
Product name	: SIGMAGLIDE 2390 BASE WHITE
CAS number	: Not applicable.
EC number	: Mixture.
Other means of identification 00470779	
Product type	: Liquid.
Relevant identified uses of t	e substance or mixture and uses advised against
Product use	Coating. Professional applications, Used by spraying, Application by non spray methods
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PPG Yung Chi Coatings Co. Ltd Lot 219, Amata Street, Long Binh IZ Bien Hoa City, Dong Nai Province Vietnam Tel : +84 61 3936121/22
Emergency telephone number (with hours of operation)	: CHEMTREC +(84)-444581938 (CCN 17704)

Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 3 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 31.7%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Flammable liquid and vapor.
	Causes mild skin irritation.
	Causes serious eye damage.
	Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	

Section 2. Hazards identification

Prevention	•	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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	:	Get medical advice or attention if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation 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	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Routes of entry	:	Not available.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.
	•	la se l'es f a succe d'a succe d'a succe d'a succe d'a

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
-------------------	---	---------

CAS number/other identifiers

CAS number EC number	: Not applicable. : Mixture.			
Ingredient name		CAS number	Chemical formula	%
cristobalite (<10 microns))	14464-46-1	O2-Si	≥10 - ≤25
2-methylpropan-1-ol		78-83-1	C4-H10-O	≤4.9
Cyclosiloxanes, di-Me		69430-24-6	-	<1

There are no 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.

SUB codes represent substances without registered CAS Numbers.

Occupational exposure limits, if available, are listed in Section 8.

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye damage.

Section 4. First aid measures

Inhalation	: N	o known significant effects or critical hazards.
Skin contact	: C	auses mild skin irritation. Defatting to the skin.
Ingestion	: N	o known significant effects or critical hazards.
Over-exposure signs/symp	<u>toms</u>	
Eye contact	pa w	dverse symptoms may include the following: ain ratering edness
Inhalation	: N	o specific data.
Skin contact	pa re dr cr	dverse symptoms may include the following: ain or irritation edness ryness racking istering may occur
Ingestion	st	dverse symptoms may include the following: comach pains
Indication of immediate mee	lical at	ttention and special treatment needed, if necessary
Notes to physician		reat symptomatically. Contact poison treatment specialist immediately if large uantities have been ingested or inhaled.
Specific treatments	: N	o specific treatment.
Protection of first-aiders	is m pr	o action shall be taken involving any personal risk or without suitable training. If it suspected that fumes are still present, the rescuer should wear an appropriate hask or self-contained breathing apparatus. It may be dangerous to the person roviding aid to give mouth-to-mouth resuscitation. Wash contaminated clothing horoughly with water before removing it, or wear gloves.

See toxicologica	l 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides Formaldehyde.
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.

Product name SIGMAGLIDE 2390 BASE WHITE

Section 5. Fire-fighting measures

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, protect	tive 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".
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 co	ntainment 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). 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. 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.

Section 7. Handling and storage

	'Y	
Advice on general occupational hygiene	:	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. See also Section 8 for additional information on hygiene measures.
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

proceduresnational guidance d substances will alsoAppropriate engineering controls: Use only with adequ ventilation or other e contaminants below also need to keep g limits. Use explosic	ACGIH TLV (United States, 1/2023). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
proceduresnational guidance d substances will alsoAppropriate engineering controls: Use only with adequ ventilation or other e contaminants below also need to keep g limits. Use explosic	Ministry of Health (Viet Nam, 6/2019). [butanols] STEL: 250 mg/m ³ 15 minutes. TWA: 150 mg/m ³ 8 hours.
controls ventilation or other of contaminants below also need to keep g limits. Use explosio	be made to appropriate monitoring standards. Reference to documents for methods for the determination of hazardous be required.
Environmental exposure : Emissions from ven	uate ventilation. Use process enclosures, local exhaust engineering controls to keep worker exposure to airborne v any recommended or statutory limits. The engineering controls gas, vapor or dust concentrations below any lower explosive on-proof ventilation equipment.
controls they comply with the cases, fume scrubb	ntilation or work process equipment should be checked to ensure e requirements of environmental protection legislation. In some bers, filters or engineering modifications to the process becessary to reduce emissions to acceptable levels.
ndividual protection measures	
eating, smoking and Appropriate techniq Wash contaminated	rms and face thoroughly after handling chemical products, before d using the lavatory and at the end of the working period. ques should be used to remove potentially contaminated clothing. d clothing before reusing. Ensure that eyewash stations and close to the workstation location.
	oggles and face shield.
Skin protection	

Section 8. Exposure controls/personal 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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: butyl rubber, nitrile 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.

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Liquid.
Color	:	White.
Odor	:	Hydrocarbon.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point	:	Not available.
Boiling point	:	>37.78°C (>100°F)
Flash point	:	Closed cup: 26°C (78.8°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.13
Colubility/ico)		Media Result
Solubility(ies)	:	cold water Not soluble
Partition coefficient: n- octanol/water	;	Not applicable.
Auto-ignition temperature	:	Not available.
		Viet Nam Page: 6/11

Section 9. Physical and chemical properties

Decomposition temperature	4	Not available.
Viscosity	:	Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s
Viscosity	:	40 - <60 s (ISO 6mm)

Section 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.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: Depending on conditions, decomposition products may include the following materials: carbon oxides Formaldehyde. metal oxide/oxides		
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur. 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 : Depending on conditions, decomposition products may include the following	Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
reactions 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 : Depending on conditions, decomposition products may include the following	Chemical stability	: The product is stable.
Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. Hazardous decomposition : Depending on conditions, decomposition products may include the following	-	: Under normal conditions of storage and use, hazardous reactions will not occur.
oxidizing agents, strong alkalis, strong acids.Hazardous decomposition: Depending on conditions, decomposition products may include the following	Conditions to avoid	
	Incompatible materials	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-methylpropan-1-ol	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	24.6 mg/l 2460 mg/kg 2830 mg/kg	4 hours - -
Conclusion/Summary Irritation/Corrosion	: There are no data available	e on the mixture i	tself.	
Conclusion/Summary				
Skin	: There are no data available	e on the mixture i	tself.	
Eyes	: There are no data available	e on the mixture i	tself.	
Respiratory	: There are no data available	e on the mixture i	tself.	
<u>Sensitization</u>				
Skin	: There are no data available	e on the mixture i	tself.	
Respiratory	: There are no data available	e on the mixture i	tself.	
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available	e on the mixture i	tself.	
Carcinogenicity				
Conclusion/Summary	: There are no data available	e on the mixture i	tself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data available	e on the mixture i	tself.	
Teratogenicity				
Conclusion/Summary	: There are no data available	e on the mixture i	tself.	

Section 11. Toxicological information

Specific target organ toxicity (single exposure)

	lame		Category		Route of exposure	Target organs
2-methylpropan-1-ol			Category 3	,	-	Respiratory tract irritation
			Category 3			Narcotic effects
Specific target organ toxici	ty (<u>repeated exposure)</u>	•	•		
Name			Category		Route of exposure	Target organs
cristobalite (<10 microns)			Category 1		inhalation	-
Aspiration hazard			·	·		
Name				Resu	t	
2-methylpropan-1-ol				ASPIF	RATION HAZA	RD - Category 2
nformation on the likely outes of exposure <u>otential acute health effects</u>		Not available.				
Eye contact	:	Causes serious eye dama	age.			
Inhalation	:	No known significant effe	cts or critical l	hazards	S.	
Skin contact	1	Causes mild skin irritation	-			
Ingestion	:	: No known significant effects or critical hazards.				
symptoms related to the phy	/sic	al, chemical and toxicolo	ogical charac	teristi	<u>cs</u>	
Eye contact	:	Adverse symptoms may i pain watering redness	nclude the fol	lowing:		
Inhalation	:	No specific data.				
Skin contact		Adverse symptoms may in pain or irritation redness dryness cracking blistering may occur				
	1.1	Adverse symptoms may i	nclude the foll	lowing.		
Ingestion		stomach pains		iowing.		
Ingestion Delayed and immediate effect				-	g term expos	<u>ure</u>
Delayed and immediate effect Short term exposure				-	<u>g term expos</u>	<u>ure</u>
elayed and immediate effect	<u>sts</u>		from short a	nd lon		<u>ure</u>
<u>Pelayed and immediate effect</u> Short term exposure Potential immediate	: <u>ts</u>	and also chronic effects	<mark>from short a</mark> le on the mixi	nd lone	elf.	<u>ure</u>
Delayed and immediate effect Short term exposure Potential immediate effects	: :	and also chronic effects There are no data availab	<mark>from short a</mark> le on the mixi	nd long ture itse ture itse	elf. elf.	<u>ure</u>

Section 11. Toxicological information

Potential chronic health e	effects
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.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
	55156.56 mg/kg 6179.5 mg/kg

Other information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-methylpropan-1-ol	1	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards. Product name SIGMAGLIDE 2390 BASE WHITE

Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. **Disposal methods** 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	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.
IMDG	 This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
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.

Transport in bulk according : Not applicable. to IMO instruments

Product name SIGMAGLIDE 2390 BASE WHITE

Section 15. Regulatory information

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

Toxic classification (TCVN : 4 3164-79)

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 22 April 2024
Date of previous issue	: 4/19/2024
Version	: 1.01
Prepared by	: EHS
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) UN = United Nations
References	: Not available.

V Indicates information that has changed from previously issued version.

Notice to reader

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.