SAFETY DATA SHEET

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013



Date of issue/Date of revision 8 May 2018

Version 2

Tevision	0 Way 2010

Section 1. Identification		
Product code	: 00155314	
Product name	: SIGMALINE 859 HARDENER	
产品名称	: SIGMALINE 859 HARDENER	
Chemical name	: Isocyanic acid, polymethylenepolyphenylene ester	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Consumer applications, Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier's details	: PPG Coatings (Kunshan) Co., Ltd 53 Jinyang Road, Lujia Town, 215331 Kunshan City, Jiangsu Province, P.R. China Tel: 86 512 57678859 Fax: 86 512 57678857	
Emergency telephone number (with hours of operation)	: 86 532 83889090	

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview

Liquid. Characteristic. Toxic if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (respiratory system) Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Call a POISON CENTER or physician. If experiencing respiratory symptoms: Call a POISON CENTER or physician. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention.

See Section 12 for environmental precautions.

Section 2. Hazards identification

Classification of the substance or mixture	 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory system) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 12.5% (Oral), 42.5% (Dermal) Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 99.5%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Foxic if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (respiratory system)
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
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. Wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. 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: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. If experiencing respiratory symptoms: Call a POISON CENTER or physician. 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. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Physical and chemical hazards	: No known significant effects or critical hazards.	

Health hazards: Foxic if inhaled. Causes serious eye irritation. Causes skin irritation. May cause
allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic
skin reaction. Suspected of causing cancer. May cause respiratory irritation. May
cause damage to organs through prolonged or repeated exposure. (respiratory
system)

Symptoms related to the physical, chemical and toxicological characteristics		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	

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

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Environmental hazards	: No known significant effects or critical hazards.
Other hazards which do not result in classification	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Chemical name	: Isocyanic acid, polymethylenepolyphenylene ester

CAS number/other identifiers		
CAS number	1	Not applicable.

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
socyanic acid, polymethylenepolyphenylene ester	40 - <70	9016-87-9
diphenylmethane-4,4'-diisocyanate	25 - <40	101-68-8
o-(p-isocyanatobenzyl)phenyl isocyanate	10 - <25	5873-54-1
2,2'-methylenediphenyl diisocyanate	1 - <10	2536-05-2
Additives	0.1 - <1	SUB133060
	I	I I I I I I I I I I I I I I I I I I I

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 necessa	ary first aid measures
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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 effec	<u>IS</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Poxic if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	toms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

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Section 4. First a	d 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)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
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.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	o action shall be taken involving any personal risk or without suitable travacuate surrounding areas. Keep unnecessary and unprotected persontering. Do not touch or walk through spilled material. Do not breathe rovide adequate ventilation. Wear appropriate respirator when ventilation adequate. Put on appropriate personal protective equipment.	nnel from vapor or mist.
For emergency responders	specialized clothing is required to deal with the spillage, take note of ar formation in Section 8 on suitable and unsuitable materials. See also t formation in "For non-emergency personnel".	•
Environmental precautions	void dispersal of spilled material and runoff and contact with soil, water nd sewers. Inform the relevant authorities if the product has caused en ollution (sewers, waterways, soil or air).	

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. 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.
Special provisions	: 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Section 7. Handling and storage

Precautions for safe handling	Put on appropriate personal protective equipment (see S and smoking should be prohibited in areas where this ma processed. Workers should wash hands and face before smoking. Remove contaminated clothing and protective eating areas. Persons with a history of skin sensitization allergies or chronic or recurrent respiratory disease shou process in which this product is used. Do not get in eyes not ingest. Avoid breathing vapor or mist. Use only with appropriate respirator when ventilation is inadequate. Ke or an approved alternative made from a compatible mate not in use. Empty containers retain product residue and reuse container.	aterial is handled, stored and e eating, drinking and e equipment before entering problems or asthma, ald not be employed in any or on skin or clothing. Do adequate ventilation. Wear eep in the original container erial, kept tightly closed when
Conditions for safe storage, including any incompatibilities	Storage temperature: 0 to 35° C (32 to 95° F). Store in ac regulations. Store in original container protected from di and well-ventilated area, away from incompatible materia food and drink. Store locked up. Keep container tightly ready for use. Containers that have been opened must l kept upright to prevent leakage. Do not store in unlabele appropriate containment to avoid environmental contami incompatible materials before handling or use. Precautions should be taken to minimize exposure to atr CO ₂ will be formed, which, in closed containers, could re	rect sunlight in a dry, cool als (see Section 10) and closed and sealed until be carefully resealed and ed containers. Use ination. See Section 10 for mospheric humidity or water.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits		
phenylmethane-4,4'-diisocy	ranate	GBZ 2.1 (China, 4/2007). PC-STEL: 0.1 mg/m ³ 15 minutes. PC-TWA: 0.05 mg/m ³ 8 hours.		
Recommended monitoring procedures	atmosphere or bio of the ventilation of protective equipm standards. Refere	tains ingredients with exposure limits, personal, workplace ological monitoring may be required to determine the effectiveness or other control measures and/or the necessity to use respiratory ent. Reference should be made to appropriate monitoring ence to national guidance documents for methods for the nazardous substances will also be required.		
Appropriate engineering controls	or other engineeri	quate ventilation. Use process enclosures, local exhaust ventilatior ng controls to keep worker exposure to airborne contaminants mended or statutory limits.		
Environmental exposure controls	they comply with t cases, fume scrul	 below any recommended or statutory limits. 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 measur	<u>es</u>			
Hygiene measures	eating, smoking a Appropriate techn Contaminated wo contaminated clot	arms and face thoroughly after handling chemical products, before nd using the lavatory and at the end of the working period. iques should be used to remove potentially contaminated clothing. rk clothing should not be allowed out of the workplace. Wash thing before reusing. Ensure that eyewash stations and safety to the workstation location.		
Eye protection Skin protection	: Chemical splash	goggles.		
Hand protection	be worn at all time this is necessary. check during use should be noted the for different glove	It, impervious gloves complying with an approved standard should es when handling chemical products if a risk assessment indicates Considering the parameters specified by the glove manufacturer, that the gloves are still retaining their protective properties. It hat the time to breakthrough for any glove material may be different manufacturers. In the case of mixtures, consisting of several rotection time of the gloves cannot be accurately estimated.		
Gloves Body protection	: butyl rubber poly			
Body protection	•	ve equipment for the body should be selected based on the task and the risks involved and should be approved by a specialist his product.		
Other skin protection	based on the task	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	areas, air-fed resp particulate filter m	ed respirator. By other operations than spraying, in well ventilated birators could be replaced by a combination charcoal filter and ask. Respirator selection must be based on known or anticipated he hazards of the product and the safe working limits of the or.		

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 220°C (428°F)
Material supports combustion.	: Yes.
Relative density Solubility Viscosity	 1.24 Insoluble in the following materials: cold water. Kinematic (40°C): >0.21 cm²/s

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	: In a fire, hazardous decomposition products may be produced.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	 Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
socyanic acid, polymethylenepolyphenylene ester	LC50 Inhalation Dusts and mists	Rat	490 mg/m³	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>9400 mg/kg 49 g/kg	-
diphenylmethane-4,4'- diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
Additives	LD50 Dermal	Rabbit - Male	1410 mg/kg	-
	LD50 Oral	Rat	2200 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<pre>phenylmethane-4,4'- diisocyanate</pre>	Skin - Irritant	Rabbit	-	-	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
diphenylmethane-4,4'- diisocyanate	skin	Mouse	Sensitizing
,	Respiratory	Guinea pig	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
<pre>phenylmethane-4,4'- diisocyanate</pre>	Positive - Inhalation - TC	Rat	0 to 6 mg/m ³	2 years; 5 days per week

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
socyanic acid, polymethylenepolyphenylene ester	Category 3	Not applicable.	Respiratory tract irritation
diphenylmethane-4,4'-diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
o-(p-isocyanatobenzyl)phenyl isocyanate	Category 3	Not applicable.	Respiratory tract irritation
2,2'-methylenediphenyl diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
Additives	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Socyanic acid, polymethylenepolyphenylene ester diphenylmethane-4,4'-diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate 2,2'-methylenediphenyl diisocyanate	Category 2		Not determined respiratory system Not determined Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Not available.

Section 11. Toxicological information

Potential acute health effec	<u>ts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Toxic if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma	
Skin contact	 Adverse symptoms may include the following: irritation redness No specific data. 	

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	1	Not available.	
Long term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Potential chronic health effects			
General	:	May cause damage to organs through prolonged or repeated exposure. 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.	
Teratogenicity	:	No known significant effects or critical hazards.	
Developmental effects	:	No known significant effects or critical hazards.	
Fertility effects	:	No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
halation (gases)	6474.8 ppm
Inhalation (vapors)	11.06 mg/l
Inhalation (dusts and mists)	0.8022 mg/l

Other information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

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.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. 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.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Isocyanic acid, polymethylenepolyphenylene ester, 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, 2,2'-methylenediphenyl diisocyanate, Additives. May produce an allergic reaction.

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Additives	LC50 134 mg/l	Fish - Pimephales promelas	96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	China	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

CN	: None identified.
UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: 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.

Section 15. Regulatory information

China inventory (IECSC) : All components are listed or exempted.

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Section 15. Regulatory information

References

 Production Safety Law of the People's Republic of China Code of Occupational Disease Prevention of the People's Republic of China Environmental Protection Law of the People's Republic of China Fire Control Law of the People's Republic of China Regulations on the Control over Safety of Dangerous Chemicals Occupational exposure limits for hazardous agents in the workplace chemical hazardous agents (GBZ2.1) General rule for classification and hazard communication of chemicals (GB13690) Safety data sheet for chemical products - Content and order of sections (GB/T16483) Guidance on the compilation of safety data sheet for chemicals (GB15258) Safety rules for classification, precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 8 May 2018
Date of previous issue	: 1/3/2017
Version	: 2
	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

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.