SAFETY DATA SHEET



Date of issue/Date of revision13 August 2020Version 5

Section 1. Identification		
Product code	: 00333813	
Product name	: AMERSHIELD NEUTRAL TINT RESIN	
Product type	: Liquid.	
Relevant identified uses of the substance or mixture and uses advised against		
Product use	Coating. Industrial applications, Used by spraying.	
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737	
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)	

Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	RESPIRATORY SENSITISATION - Category 1
	SKIN SENSITISATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

GHS label elements, inclu	iding precautionary statements
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Mammable liquid and vapour.

Hazard statements	 Fammable liquid and vapour. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Wear protective gloves. Wear respiratory 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. Do not breathe vapour.

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Section 2. Hazards identification

Response	: Set medical advice/attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: 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	: Frolonged or repeated contact may dry skin and cause irritation.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number EC number	: Not applicable. : Mixture.		
Ingredient name		%	CAS number
p-butyl acetate		10 - <20	123-86-4
crystalline silica, respirable powder (<10 microns)		1 - <3	14808-60-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate		0.3 - <1	41556-26-7
2-hydroxyethyl methacrylate		0.1 - <0.3	868-77-9
4-isocyanatosulphonyltoluene		0.1 - <0.3	4083-64-1
methyl 1,2,2,6,6-pentan	nethyl-4-piperidyl sebacate	0.1 - <0.3	82919-37-7

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	 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 recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed Potential acute health effects

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Section 4. First aid measures

Eye contact	: No known significant effects or critical hazards.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: ▶ fatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
See toxicological information	on (Section 11)

Section 5. Firefighting 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 vapour. 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	

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Section 5. Firefighting measures

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, protect	tive	e 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt 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 material for con	tai	nment 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 the 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 spilt 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

Section 6. Accidental release measures

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	L	
Protective measures	:	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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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 earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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	:	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. Eliminate all ignition sources. Separate from oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

<u>Control parameters</u> <u>Occupational exposure limits</u>

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Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits
r butyl acetate crystalline silica, respirable po	wder (<10 r	Workplace Safety and Health Act (Singapore, 2/2006).PEL (short term): 950 mg/m³ 15 minutes.PEL (short term): 200 ppm 15 minutes.PEL (long term): 713 mg/m³ 8 hours.PEL (long term): 150 ppm 8 hours.PEL (long term): 150 ppm 8 hours.Workplace Safety and Health Act (Singapore, 2/2006).PEL (long term): 0.1 mg/m³ 8 hours. Form: Respirable dust
Recommended monitoring procedures	atmosph of the ve protectiv standard	ct contains ingredients with exposure limits, personal, workplace e or biological monitoring may be required to determine the effectiveness ation or other control measures and/or the necessity to use respiratory quipment. Reference should be made to appropriate monitoring Reference to national guidance documents for methods for the on of hazardous substances will also be required.
Appropriate engineering controls	or other below ar keep ga	th adequate ventilation. Use process enclosures, local exhaust ventilation gineering controls to keep worker exposure to airborne contaminants ecommended or statutory limits. The engineering controls also need to apour or dust concentrations below any lower explosive limits. Use roof ventilation equipment.
Environmental exposure controls	they con cases, fi	rom ventilation or work process equipment should be checked to ensure with the requirements of environmental protection legislation. In some e scrubbers, filters or engineering modifications to the process equipment essary to reduce emissions to acceptable levels.
Individual protection measure	<u>s</u>	
Hygiene measures	eating, s Appropri Contami contami	s, forearms and face thoroughly after handling chemical products, before king and using the lavatory and at the end of the working period. techniques should be used to remove potentially contaminated clothing. ed work clothing should not be allowed out of the workplace. Wash ed clothing before reusing. Ensure that eyewash stations and safety e close to the workstation location.
Eye/face protection	: Safety g	ses with side shields.
Skin protection		
Hand protection	be worn this is ne check du should b for differ	esistant, impervious gloves complying with an approved standard should all times when handling chemical products if a risk assessment indicates ssary. Considering the parameters specified by the glove manufacturer, g use that the gloves are still retaining their protective properties. It oted that the time to breakthrough for any glove material may be different glove manufacturers. In the case of mixtures, consisting of several , the protection time of the gloves cannot be accurately estimated.

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Section 8. Exposure controls/personal protection

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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	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
Restrictions on use	: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Odour	: Characteristic.
рН	insoluble in water.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 43.33°C (110°F)
Evaporation rate	: 1.04 (butyl acetate = 1)
Flammability (solid, gas)	: liquid
Vapour pressure	: 2.8 kPa (21.2 mm Hg) (at 20°C)
Vapour density	: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 4.11 (Air = 1)
Relative density	: 7.34
Solubility	: Insoluble in the following materials: cold water.
Auto-ignition temperature	: Lowest known value: 333°C (631.4°F) (2-methoxy-1-methylethyl acetate).
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

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	: 🗖 a fire, hazardous decomposition products may be produced.

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Section 10. Stability and reactivity

Hazardous decomposition : Depending on conditions, decomposition products may include the following	Incompatible materials	:	Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.	
products materials: carbon oxides metal oxide/oxides	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5050 mg/kg	-
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
methyl	LD50 Oral	Rat	3.125 g/kg	-
1,2,2,6,6-pentamethyl-				
4-piperidyl sebacate				
Conclusion/Summary : 7	here are no data available on the	mixture itself.		
Irritation/Corrosion				
Conclusion/Summary				
Skin : 1	here are no data available on the	mixture itself.		
Eyes : 7	here are no data available on the	mixture itself.		
Respiratory : 7	here are no data available on the	mixture itself.		
Sensitisation				
Conclusion/Summary				
Skin : 1	here are no data available on the	mixture itself.		
Respiratory : 7	here are no data available on the	mixture itself.		
Mutagenicity				
Conclusion/Summary :	There are no data available on the	mixture itself.		
Carcinogenicity				
Conclusion/Summary :	There are no data available on the	mixture itself.		
Reproductive toxicity				
Conclusion/Summary :	There are no data available on the	mixture itself.		
Teratogenicity				
Conclusion/Summary :	There are no data available on the	mixture itself.		
Specific target organ toxicity	<u>(single exposure)</u>			

Section 11. Toxicological information

Name		Category	Route of exposure	Target organs
p-butyl acetate		Category 3	-	Narcotic effects
4-isocyanatosulphonyltoluen	е	Category 3	-	Respiratory tract irritation
Specific target organ toxicit	<u>y (repeated exposure)</u>			
Name		Category	Route of exposure	Target organs
rystalline silica, respirable p	oowder (<10 microns)	Category 1	inhalation	-
Aspiration hazard				
Not available.				
nformation on likely routes of exposure	: Not available.			
Potential acute health effects	s			
Eye contact	 No known significant e 	effects or critical haza	ards.	
Inhalation	: May cause allergy or a			es if inhaled
Skin contact	 Defatting to the skin. I skin reaction. 		-	
Ingestion	: No known significant e	effects or critical haza	ırds.	
Symptoms related to the phy	vsical chemical and toxic	cological characteri	stics	
Eye contact	: No specific data.	sological characteri	51105	
Inhalation	: Adverse symptoms ma	ay include the followi	ng:	
	wheezing and breathir asthma		5	
Skin contact	: Adverse symptoms ma	ay include the followi	ng:	
	irritation			
	redness dryness			
	cracking			
Ingestion	: No specific data.			
Delayed and immediate effect	ets as well as chronic off	ects from short and	long-term expos	
Short term exposure			tong term exp03	
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
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Section 11. Toxicological information

Potential chronic health e	ffects
General	: May cause 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 to very low levels.
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

Not available.

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 vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Avoid contact with skin and clothing.

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
p -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Conclusion/Summary	: There are no data available	on the mixture itself.	

Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 da	ys -	-
Conclusion/Summary : There are no data available on the mixture itself.				
Product/ingredient name	Aquatic half-life	e P	hotolysis	Biodegradability
p -butyl acetate	-	-		Readily

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
p-butyl acetate	1.78	-	low
2-hydroxyethyl methacrylate	0.47	-	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 minimised 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. Vapour 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 spilt 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	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN : None identified. IMDG : None identified.

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Section 14. Transport information

IATA : None identified.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

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	: 13 August 2020
Date of previous issue	: 3/26/2020
Version	: 5
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

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.

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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.