# **SAFETY DATA SHEET**

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



Date of issue/Date of revision 26 November 2024

Version 3.04

Section 1. Chemical product and company identification		
Product code	: 00376358	
Product name	: AMERSHIELD BASE RAL 5014	
Product name	: AMERSHIELD BASE RAL 5014	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: 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)	: 00 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. Various Characteristic. Flammable liquid and vapor. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Prolonged or repeated contact may dry skin and cause irritation.

### See Section 12 for environmental precautions.

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 57.8%

### **GHS label elements**

# Section 2. Hazards identification

	$\checkmark$
Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statements	
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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid release to the environment.
Response	: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
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.
Physical and chemical hazards	: Flammable liquid and vapor.
Health hazards	: Prolonged or repeated contact may dry skin and cause irritation.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Inhalation Skin contact	<ul> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation dryness cracking</li> </ul>
	: Adverse symptoms may include the following: irritation dryness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> </ul>
Skin contact Ingestion Delayed and immediate effec	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effec</u> <u>Short term exposure</u> Potential immediate	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effec</u> <u>Short term exposure</u> Potential immediate effects	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> </ul>
Skin contact Ingestion Delayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> </ul>
Skin contact Ingestion <u>Delayed and immediate effec</u> <u>Short term exposure</u> Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> <li>No specific data.</li> <li>cts and also chronic effects from short and long term exposure</li> <li>Not available.</li> <li>Not available.</li> </ul>

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# Section 2. Hazards identification

**Other hazards which do not :** May form explosive peroxides. Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

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Substance/mixture

: Mixture

. . .

# CAS number/other identifiers

<b>CAS number</b> : Not applicable.		
Ingredient name	%	CAS number
n-butyl acetate 2-methoxy-1-methylethyl acetate 1,2,3,4-tetrahydronaphthalene bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	10 - <25 1 - <10 0.1 - <1 0.1 - <1 0.1 - <1	123-86-4 108-65-6 119-64-2 41556-26-7 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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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 symptom	s/effects, acute and delayed
Potential acute health ef	<u>iects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	nptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
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## Section 4. First aid measures

Ingestion

: No specific data.

# Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large<br/>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. It<br/>may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 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 metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protectiv	ve 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. Avoid breathing 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".

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### Section 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 noncombustible, 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

Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities
 Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

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# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name			Exposure limits
<mark>⊮</mark> butyl acetate			GBZ 2.1 (China, 11/2022) PC-TWA 8 hours: 200 mg/m <sup>3</sup> . PC-STEL 15 minutes: 300 mg/m <sup>3</sup> .
Recommended monitoring procedures	na	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	
Appropriate engineering controls	ve co als	ntilation or other engineering contro ntaminants below any recommende	se process enclosures, local exhaust ls to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive equipment.
Environmental exposure controls	the ca	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
ndividual protection measu	ires		
Hygiene measures	ea Ap Wa	ting, smoking and using the lavatory propriate techniques should be use	bughly after handling chemical products, before y and at the end of the working period. In to remove potentially contaminated clothing busing. Ensure that eyewash stations and tation location.
Eye protection	: Sa	fety glasses with side shields.	
Skin protection			
Hand protection	be thi ch sh dif se	worn at all times when handling che s is necessary. Considering the par eck during use that the gloves are s ould be noted that the time to break ferent for different glove manufactur	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately
Body protection	be be we	ing performed and the risks involved fore handling this product. When the	body should be selected based on the task d and should be approved by a specialist here is a risk of ignition from static electricity, or the greatest protection from static hti-static overalls, boots and gloves.
Other skin protection	se		al skin protection measures should be ormed and the risks involved and should be ng this product.
Respiratory protection	ha wc ap res	zards of the product and the safe wo orkers are exposed to concentrations propriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed I standard if a risk assessment indicates this is

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	_iquid.	
Color	/arious	
Odor	Characteristic.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: 29°C (84.2°F)	
Lower and upper explosive (flammable) limits	Not available.	
Relative density	1.33	
Solubility(ies)	Media Result	
oolubility(los)	cold water Not soluble	
Viscosity	ynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/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	: 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 metal oxide/oxides	

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose		Exposure
<b>p</b> -butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l		4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm		4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg		-
	LD50 Oral	Rat	10.768 g/kg		-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l		4 hours
	LD50 Dermal	Rabbit	>5 g/kg		-
	LD50 Oral	Rat	6190 mg/kg		-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg		-
4-piperidyl) sebacate					
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Ś	Section 11. Toxicolo	gical inforr	mation			
	methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-	

### Irritation/Corrosion

Not available.

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
n-butyl acetate	Category 3		Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Name	Result
1,2,3,4-tetrahydronaphthalene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	1	Not available.
Potential acute health effects		
Eye contact	1	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	:	Defatting to the skin. May cause skin dryness and irritation.
Ingestion	1	No known significant effects or critical hazards.
Symptome related to the phy	-i/	al chemical and toxical grical characteristics

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

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# Section 11. Toxicological information

### 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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.</li> </ul>
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

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<ul> <li>P-butyl acetate</li> <li>2-methoxy-1-methylethyl acetate</li> <li>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</li> <li>methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</li> </ul>	10768	N/A	N/A	N/A	N/A
	6190	N/A	N/A	30	N/A
	3125	N/A	N/A	N/A	N/A
	3125	N/A	N/A	N/A	N/A

### 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. Avoid contact with skin and clothing.

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute LC50 18 mg/l	Fish	96 hours
	Acute LC50 134 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

### Persistence/degradability

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# Section 12. Ecological information

Product/in andient nome	Teat	Desult		Dose		In a culture	
Product/ingredient name	Test	Result	Result			Inoculum	
<b>n</b> -butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-		-	
2-methoxy-1-methylethyl acetate	-	83 % - Readily - 28 days		-		-	
Product/ingredient name	Aquatic half-life	Photolysis			Biodeg	<b>radability</b>	
<ul> <li>butyl acetate</li> <li>2-methoxy-1-methylethyl acetate</li> </ul>	-		-		Readily Readily		

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
-butyl acetate	2.3	-	Low
2-methoxy-1-methylethyl	1.2	-	Low
acetate			
1,2,3,4-tetrahydronaphthalene	3.78	162.4 to 1514	High

### <u>Mobility in soil</u>

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

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. 2 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.

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# Section 14. Transport information

	China	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	111	111	111	111
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.

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

China inventory (IECSC)	: All components are listed or exempted.
References	<ul> <li>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 chemical products (GB/ T17519) General rule for preparation of precautionary label for chemicals (GB15258) Safety rules for classification, precautionary labeling and precautionary statements of chemicals (GB30000.2-29)</li> </ul>

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# Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 26 November 2024
Date of previous issue	: 6/3/2024
Version	: 3.04
	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.

### 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.