



## Safety Data Sheet MSDS

Report No: BRIMIN2022903MOR

Date: 29 Nov 2022

SHENZHEN SHIERJIE BIOLOGICAL ENGINEERING CO., LTD  
101,201,301 AND 401,BUILDING5,DONGCHUANG INTELLIGENT SCIENCE AND TECHNOLOGY INDUSTRIAL PARK,  
NO.2,LINGHAI ROAD,KUIXIN COMMUNITY,KUIYONG SUB-DISTRICT,DAPENG NEW DISTRICT,SHENZHEN CITY

The following sample information provided and confirmed by the clients::

Product name : Hand Sanitiser  
Product use : according to the client's application  
Material composition : See section 3 of this sds report for details.(provided by the customer).  
Date of authorization : 25 Nov 2022  
Deadline : 29 Nov 2022  
Msds compilation period : 25 Nov 2022 - 29 Nov 2022

Entrusted requirements : prepare msds according to the material composition provided by the client

**Summary:** according to the client's application, the content and format of this SDS are prepared in accordance with EU regulation No. 2015/830. For details, please refer to the following.

Signed for and on behalf of  
BRI Products Technical Services Co.,Ltd

*Kara*

Kara YE  
Senior Engineer



BRI Products Technical  
Services Co., Ltd.

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No.46 Jiyuan Road, Jimei District, Xiamen, Fujian, China.  
中国·厦门·集美区集源路46号

Tel: 0592-6254 242

Fax: 0592-6285 945

E-mail: [Report@bri-testing.com](mailto:Report@bri-testing.com) Website: <http://www.bri-testing.com>

# Safety Data Sheet

## Hand Sanitiser

Version: V1.0.0.1

Report No.: BRIMIN2022903MOR

Creation Date: 2022/11/29

Revision Date: 2022/11/29

**\*Prepared according to EU regulation No. 2015/830**

### 1 Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product Name	Hand Sanitiser
Product Specifications	500ml
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	Not applicable

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

#### Details of the supplier of the Safety Data Sheet

Name of the company	SHENZHEN SHIERJIE BIOLOGICAL ENGINEERING CO., LTD
Address of the company	101,201,301 AND 401,BUILDING5,DONGCHUANG INTELLIGENT SCIENCE AND TECHNOLOGY INDUSTRIAL PARK,NO.2,LINGHAI ROAD,KUIXIN COMMUNITY,KUIYONG SUB-DISTRICT,DAPENG NEW DISTRICT,SHENZHEN CITY
Post code	518000
Telephone number	0086-755-82024582
Fax number	0086-755-26723062
E-mail address	szsej@vip.163.com

#### Emergency phone number

Emergency phone number	0086-755-82024582
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### 2 Hazards identification

#### CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments.

Flammable Liquid	Category 2
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#### Label elements

Hazard pictograms	
Signal word	Danger

#### Hazard statements

H225 Highly flammable liquids and vapors

## Precautionary statements

### ◆ Prevention

P210	Keep away from heat source/spark/open flame/hot surface. No smoking.
P233	Keep container tightly closed
P240	Earthing/equipotential connection between container and receiver
P241	Use explosion-proof electrical/ventilation/lighting equipment.
P242	Use only tools that do not produce sparks.
P243	Take measures to prevent electrostatic discharge.
P280	Wear protective gloves/clothing/goggles/mask.

### ◆ Response

P370+P378	In case of fire: use the appropriate extinguishing medium mentioned in section 5 of this report.
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### ◆ Storage

P403+P235	Store in a well-ventilated place. Keep it cold.
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### ◆ Disposal

P501	Dispose of contents/containers in accordance with local/regional/national/international regulations.
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## Other hazards

Other hazards	No information available
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## 3 Component

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Concentration (weight percentage, %)
Ethanol	64-17-5	200-578-6	-	Flammable liquid Category 2, H225	75
Water	7732-18-5	231-791-2	-	Not Classified	23.6
Glycerin	56-81-5	200-289-5	-	Not Classified	1
Triethanolamine	102-71-6	203-049-8	-	Not Classified	0.1
Aloe vera	85507-69-3	287-390-8	-	Not Classified	0.1
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	176429-87-1	611-106-7	-	Not Classified	0.2

## 4 First aid measures

### Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
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Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

**| Most important symptoms and effects, both acute and delayed**

1	Please see section 11.
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**| Indication of any immediate medical attention and special treatment needed**

1	Treat symptomatically.
2	Symptoms may be delayed.

**5 Firefighting measures**

**| Extinguishing media**

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

**| Specific hazards arising from the substance or mixture**

1	Containers may explode when heated.
2	May expansion or decompose explosively when heated or involved in fire.

**| Advice for firefighters**

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

**| Personal precautions, protective equipment and emergency procedures**

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

**6 Accidental release measures**

**| Environmental precautions**

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

**| Methods and materials for containment and cleaning up**

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**7 Handling and storage**

## Precautions for handling

### ◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

### ◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
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### ◆ Measures to prevent aerosol and dust generation

1	Avoid formation of dust and aerosols.
2	Provide appropriate exhaust ventilation at places where dust is formed.

### ◆ Advice on general occupational hygiene

1	Wash hands and face after using of the substances.
2	Replace the contaminated clothing immediately.

## Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed .
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

## Specific end uses

1	In addition to use mentioned in the first parts, unforeseen other specific end uses.
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## 8 Exposure controls/personal protection

### Control parameters

#### ◆ Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethanol 64-17-5	USA-OSHA	1000	1900	-	-
	Korea	1000	1900	-	-
	Ireland	-	-	1000	-
	Germany(AGS)	500	960	1000	1920
	Denmark	1000	1900	2000	3800
	Australian	1000	1880	-	-
Glycerin 56-81-5	USA-OSHA	-	15	-	-
	Korea	-	10	-	-
	Ireland	-	10	-	-
	Germany(DFG)	-	50	-	100
	Belgium	-	10	-	-

	Australian	-	10	-	-
Triethanolamine 102-71-6	Switzerland	-	5	-	20
	Sweden	0.8	5	1.6	10
	Ireland	-	5	-	-
	Germany (DFG)	-	5	-	20
	Denmark	0.5	3.1	1	6.2
	Australia	-	5	-	-
	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer 176429-87-1	Britain	-	10	-
Britain		150	474	-	-
New Zealand		150	474	-	-
Latvia		-	7	-	-
Ireland		-	10	-	-
Ireland		150	470	-	-
Canada - Ontario		-	10	-	-
Canada - Ontario		50	155	-	-

◆ Biological limit values

Biological limit values	No information available
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
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2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .
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◆ Derived No effect level(DNEL)

Cas No.	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
64-17-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
7732-18-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
56-81-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
102-71-6	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

85507-69-3	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
176429-87-1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available


◆ Predicted No Effect Concentration (PNEC)

Predicted No Effect Concentration (PNEC)	No information available
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| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	If necessary, Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand protection	If necessary, Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	If necessary, Wear fire/flame resistant/retardant clothing and antistatic boots.

**9** Physical and chemical properties

| Physical and chemical properties

Appearance	Colorless transparent liquid
Odor	Weak odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup, °C)	<23°C
Evaporation rate	No information available
Flammability	Flammable
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available

Vapor pressure	No information available
Vapor density(Air= 1)	No information available
Relative density(Water=1)	No information available
Solubility(mg/L)	Soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Viscosity(mm <sup>2</sup> /s)	No information available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

## 10 Stability and reactivity

### | Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### | Acute toxicity

Component	Cas No.	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (Inhalation)
Ethanol	64-17-5	7061mg/kg(rat)	Not Listed	39mg/L(Mouse)
Water	7732-18-5	Not Listed	Not Listed	Not Listed
Glycerin	56-81-5	9000mg/kg(rat)	Not Listed	Not Listed
Triethanolamine	102-71-6	5000-9000mg/kg(rat)	Not Listed	Not Listed
Aloe vera	85507-69-3	Not Listed	Not Listed	Not Listed
Tocopherol	59-02-9	>25 mL/kg (rat)	Not Listed	Not Listed
Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	176429-87-1	Not Listed	Not Listed	Not Listed

## Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	64-17-5	Ethanol	Category 1	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed
3	56-81-5	Glycerin	Not Listed	Not Listed
4	102-71-6	Triethanolamine	Not Listed	Not Listed
5	85507-69-3	Aloe vera	Not Listed	Not Listed
6	176429-87-1	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	Not Listed	Not Listed

## Others

Hand Sanitiser	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

## 12 Ecological information

### Acute aquatic toxicity

Acute aquatic toxicity	No information available
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### Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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### Persistence and degradability

Persistence and degradability	No information available
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### Bioaccumulative potential

Bioaccumulative potential	No information available
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### Mobility in soil

Mobility in soil	No information available
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### Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Ethanol	64-17-5	not PBT/vPvB
Water	7732-18-5	not PBT/vPvB
Glycerin	56-81-5	not PBT/vPvB
Triethanolamine	102-71-6	not PBT/vPvB
Aloe vera	85507-69-3	not PBT/vPvB
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	176429-87-1	not PBT/vPvB


### 13 Disposal considerations

#### Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1 and 13.2.

### 14 Transport information

#### Label and Mark

Transporting Label	
Marine pollutant	None

#### IMDG-CODE

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Packing category	3
Main hazard categories	None
Minor hazard categories	II
Special provisions for transport	144
Limited quantity	1L
Number of exceptions	E2
EmS No.	NO
Marine pollutants	F-E,S-D

#### ICAO/IATA-DGR

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Packing category	3
Main hazard categories	None
Minor hazard categories	II
Number of exceptions	E2
Guidance on limited quantity packaging for passenger and freight transport	Y341
Maximum net weight per piece for passenger and freight limited quantity transport	1L
Passenger and freight packaging Guidelines	353
Maximum net weight per passenger and freight piece	5L
Freight Packing Guide	364
Maximum net weight per shipment	60L
Special provisions for transport	A3、A58、A180
ERG code	3L

#### UN-ADR

UN number	1170
UN proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Packing category	3
Main hazard categories	None
Minor hazard categories	II
Special provisions	144 601
Limited quantity	1L
Number of exceptions	E2
Packing specification	P001 IBC02 R001
Special provisions on packaging	-
Regulations on mixed packaging	MP19
Specification for portable tanks and bulk containers	T4
Special provisions for portable tanks and bulk containers	TP1
ADR tank code	LGBF
ADR tank special provisions	-
Tank transport vehicles	FL
Transport Classification (Tunnel traffic Restriction Code)	2(D/E)
Special requirements for transport (packing)	V11
Special requirements for transport	-

(medium bulk containers)	
Special requirements for transport (handling and handling)	-
Special requirements for transport (operations)	S2 S20
Hazard identification code	33
Remark	-

## 15 Regulatory information

### International chemical inventory

Cas No.	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
64-17-5	√	√	√	√	√	√	√	√	√
7732-18-5	√	√	√	√	√	√	√	√	√
56-81-5	√	√	√	√	√	√	√	√	√
102-71-6	√	√	√	√	√	√	√	√	√
85507-69-3	√	x	√	√	√	√	x	√	√
176429-87-1	x	x	x	x	x	x	x	x	x

【 EINECS 】 European Inventory of Existing Commercial Chemical Substances

【 TSCA 】 United States Toxic Substances Control Act Inventory

【 DSL 】 Canadian Domestic Substances List

【 IECSC 】 China Inventory of Existing Chemical Substances

【 NZIoC 】 New Zealand Inventory of Chemicals

【 PICCS 】 Philippines Inventory of Chemicals and Chemical Substances

【 KECI 】 Existing and Evaluated Chemical Substances

【 AICS 】 Australia Inventory of Chemical Substances

【 ENCS 】 Existing And New Chemical Substances

### European chemical inventory

Cas No.	A	B	C	D	E	F	G
64-17-5	√	x	x	x	x	x	x
7732-18-5	x	x	x	x	x	x	x
56-81-5	x	x	x	x	x	x	x
102-71-6	x	x	x	x	x	x	x
85507-69-3	x	x	x	x	x	x	x
176429-87-1	x	x	x	x	x	x	x

【 A 】 Candidate list of Substances of Very High Concern for authorization under EU REACH regulation

【 B 】 Substances requiring authorisation under EU REACH regulation

【 C 】 Substances restricted under EU REACH

【 D 】 Pre-registered substances under EU REACH

【 E 】 Registered substances under EU REACH

【 F 】 Substance Evaluation – CoRAP under EU REACH

【 G 】 List of priority substances under EU water policy ( Directive 2455/2001/EC )

Note

“√” Indicates that the substance included in the regulations “×”

That no data or included in the regulations

## 16 Others

### Information on revision

Creation Date	2022/11/29
Revision Date	2022/11/29
Reason for revision	-

### Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2]IARC, website: <http://www.iarc.fr/>.

[3] OECD: The Global Portal to Information on Chemical Substances, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en).

[4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### Abbreviations and acronyms

**CAS** –Chemical Abstracts Service

**PC-STEL**- Short term exposure limit

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC<sub>50</sub>** - Lethal Concentration 50%

**NOEC** -No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**BCF** - Bioconcentration factor (BCF)

**IMDG**-International Maritime Dangerous Goods

**UN**-The United Nations

**NFPA**-National Fire Protection Association

**CMR** - Carcinogens, mutagens or substances toxic to reproduction

**PC-TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**PNEC** –Predicted No Effect Concentration

**LD<sub>50</sub>** - Lethal Dose 50%

**EC<sub>50</sub>** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ICAO/IATA**-International Civil Aviation Organization/International Air Transportation Association

**ACGIH**-American Conference of Governmental Industrial Hygienists

**OECD**-Organization for Economic Co-operation and Development

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user’s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.