SAFETY DATA SHEETS	
	Classification and Labelling of Chemicals (GHS) -
Sixth revised edition	
Version: 1.0	
Creation Date: Aug 17, 2017	
Revision Date: Aug 17, 2017	
1.Identification	
1.1GHS Product identifier	
Product name	3,3,3-tris(4-chlorophenyl)propanoic acid
1.20ther means of identification	
Product number	-
Other names	3,3,3-Tris(4-chlorophenyl) propionic acid
1.3Recommended use of the chemical and rest	rictions on use
Identified uses	For industry use only.
Uses advised against	no data available
1.4Supplier's details	
Company	MOLBASE (Shanghai) Biotechnology Co., Ltd.
Address	Floor 5th, Building 12, No. 1001 North Qinzhou Road, Xuhui District
Telephone	86(21)54365062
Fax	86(21)54365166
1.5Emergency phone number	
Emergency phone number	86(21)54365062
Service hours	Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 ho
2.Hazard identification	
2.1Classification of the substance or mixture	
Skin irritation, Category 2	
Eye irritation, Category 2	
Specific target organ toxicity – single exposure,	Category 3
2.2GHS label elements, including precautionary	/ statements
Pictogram(s)	
Signal word	Warning
Hazard statement(s)	H315 Causes skin irritation
	H319 Causes serious eye irritation
	H335 May cause respiratory irritation
Precautionary statement(s)	
Prevention	P264 Wash thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/fa
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

Response	P302+P352 IF ON SKIN: Wash with plenty of water/
	P321 Specific treatment (see on this label).
	P332+P313 If skin irritation occurs: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reus
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for
	lenses, if present and easy to do. Continue rinsing.
	P337+P313 If eye irritation persists: Get medical advice/attention.
	P304+P340 IF INHALED: Remove person to fresh air and keep comf
	P312 Call a POISON CENTER/doctor/if you feel unwell.
Storage	P403+P233 Store in a well-ventilated place. Keep container tightly
	P405 Store locked up.
Disposal	P501 Dispose of contents/container to

2.30ther hazards which do not result in classification

none

3.Composition/information on ingredients

3.1Substances

Chemical name	Common names and synonyms	CAS number
3,3,3-tris(4-chlorophenyl)propanoic acid	3,3,3-tris(4-chlorophenyl)propanoic acid	2168-06-1

4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

5.Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

no data available

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	White crystallized powder				
Colour	no data available				
Odour	no data available				
Melting point/ freezing point	190-193ºC				
Boiling point or initial boiling poi	nt and 505.8°C at 760 mmHg				
boiling range					
Flammability	no data available				
Lower and upper explosion li flammability limit	imit /no data available				
Flash point	259.7ºC				
Auto-ignition temperature	no data available				
Decomposition temperature	no data available				
рН	no data available				
Kinematic viscosity	no data available				
Solubility	no data available				
Partition coefficient n-octanol/wat	er (logno data available				
value)					
Vapour pressure	4.74E-11mmHg at 25°C				
Density and/or relative density	1.369 g/cm3				
Relative vapour density	no data available				
Particle characteristics	no data available				
10.Stability and reactivity					
10.1Reactivity					
no data available					
10.2Chemical stability					
Stable under recommended storage conditions.					
10.3Possibility of hazardous reactions					
no data available					
10.4Conditions to avoid					
no data available					
10.5Incompatible materials no data available					
10.6Hazardous decomposition products					
no data available					
11.Toxicological information					
Acute toxicity					
Oral: no data available					
Inhalation: no data available					
Dermal: no data available					
Skin corrosion/irritation					
no data available					
Serious eye damage/irritation					
no data available					

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available

12.4Mobility in soil

no data available

12.50ther adverse effects

no data available

13.Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information

14.1UN Number

ADR/RID: no data available

IMDG: no data available

IATA: no d

14.2UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available					
IATA: no data available					
14.3Transport hazard class(es) ADR/RID: no data available	IMDG: no data available				
	INDG. NO GATA AVAILABLE	IATA: no c			
14.4Packing group, if applicable	NADC: no doto publichia				
ADR/RID: no data available	IMDG: no data available	IATA: no c			
14.5Environmental hazards		1070			
ADR/RID: no	IMDG: no	IATA			
14.6Special precautions for user					
no data available	PPOL 72/78 and the IPC Code				
14.7Transport in bulk according to Annex II of MA no data available	RPOL 73/78 and the IBC Code				
15.Regulatory information					
15.1Safety, health and environmental regulations	specific for the product in question				
Chemical name	Common names and synonyms				
3,3,3-tris(4-chlorophenyl)propanoic acid					
European Inventory of Existing Commerc	cial Chemical Substances (EINECS)				
EC Inventory					
United States Toxic Substances Control A	ct (TSCA) Inventory				
China Catalog of Hazardous chemicals 20	015				
New Zealand Inventory of Chemicals (NZ	New Zealand Inventory of Chemicals (NZIoC)				
Philippines Inventory of Chemicals and C	hemical Substances (PICCS)				
Vietnam National Chemical Inventory					
Chinese Chemical Inventory of Existing C	hemical Substances (China IECSC)				
16.Other information					
Information on revision					
Creation Date	Aug 17, 2017				
Revision Date	Aug 17, 2017				
Abbreviations and acronyms					
CAS: Chemical Abstracts Service					
ADR: European Agreement concerning the Interna	ational Carriage of Dangerous Goods by Road				
RID: Regulation concerning the International Carr	iage of Dangerous Goods by Rail				
IMDG: International Maritime Dangerous Goods					
IATA: International Air Transportation Association					
TWA: Time Weighted Average					
STEL: Short term exposure limit					
LC50: Lethal Concentration 50%					
LD50: Lethal Dose 50%					
EC50: Effective Concentration 50%					
References					
IPCS - The International Chemic	al Safety Cards (ICSC) website				

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB Hazardous Substances Data Bank, website: _ https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/ eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg **GESTIS-database** Germany on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp ECHA - European Chemicals Agency, website: https://echa.europa.eu/