

SAFETY DATA SHEET

SDS No.1021-21007

Revised Date June 11, 2014 1/3 page

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : 1,3,5-Trichlorobenzene
NAME OF MANUFACTURER : GL Sciences Inc.
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan
CHARGE SECTION : International Sales Section
TELEPHONE No. : +81-3-5323-6620
FACSIMILE No. : +81-3-5323-6621
PRODUCT No. : 1021-21007
SDS No. : 1021-21007
Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Acute toxicity-Oral : Category 4
Eye damage/eye irritation : Category 2B
Specific target organ toxicity - single exposure - : Category 3 <Respiratory irritation>
Specific target organ toxicity, repeated exposure : Category 2 <liver, kidney, thyroid, nasal cavity>

HAZARDS SYMBOL :



SIGNAL WORD : Warning

HAZARD STATEMENTS :

H302 Harmful if swallowed
H320 Causes eye irritation
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS :

P260 Do not breathe dust or mist.
P264 Wash hands and eyes thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/if you feel unwell.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact 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 comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with all applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : 1,3,5-Trichlorobenzene
CHEMICAL FORMULA : C₆H₃Cl₃
CONTENT : > 99%
MOLECULAR WEIGHT : 181.5
CAS No. : 108-70-3
TSCA INVENTORY : Listed
EINECS No. : 203-608-6
EC INDEX No. : Not established

4. FIRST AID MEASURES

- GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
- INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
- SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.
- EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
- INGESTION : Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician immediately.

5. FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA : Carbon dioxide, dry chemical powder, foam, water spray
- FIRE & EXPLOSION HAZARDS : Toxic, irritating, fumes or smoke may be emitted.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Firemen should wear normal protective equipment(full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS : In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS : Prevent spills from entering sewers, watercourses or low areas.
- METHODS FOR CLEAN UP : Do not touch spilled material without suitable protection. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

- HANDLING : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with suitable protection.
After using this product, dispose of contents/container in accordance with all applicable regulations and appropriate ways.
- STORAGE : Store away from sunlight in well-ventilated cool place.
Keep container tightly closed.
- INCOMOPATIBLE PRODUCTS : Oxidizers

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits.
Use only with adequate ventilation.
- VENTILATION : Local Exhaust ; Necessary, Mechanical(General) ; Necessary
- PERSONAL PROTECTION
- RESPRATORY PROTECTION : Use respirators approved under appropriate government standards and follow all regulations.
- HAND PROTECTION : Protective gloves
- EYE PROTECTION : Safety glasses(goggles)
- SKIN PROTECTION : Protective clothing
- CONTROL PARAMETERS
- OSHA PEL : Not established
- ACGIH : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE : White~Pale white yellow
- SHAPE : Solid
- ODOR : Not available
- pH : Not available
- BOILING POINT : 208 degree C
- MELTING POINT : 63 degree C
- FLASH POINT : 107 degree C
- FLAMMABILITY : Not available
- AUTOIGNITION TEMPERATURE : Not available

VAPOR PRESSURE	: 24Pa(25 degree C)
VAPOR DENSITY	: 1.0(Air=1)
SPECIFIC GRAVITY	: 1.4604
SOLUBILITY IN	
Water	: Insoluble
Organic solvent	: Soluble in acetone, ethanol

10. STABILITY AND REACTIVITY

REACTIVITY	: Stable under recommended storage conditions.
CHEMICAL STABILITY	: Degenerated by sunlight.
CONDITION TO AVOID	: Sunlight, oxidizers
INCOMPATIBLE MATERIALS	: Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	: CO, CO ₂ , chlorine compounds

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	: Rat : LD50=1800,2100,2490,2800,800mg/kg
SKIN CORROSION/IRRITATION	: Out of category
EYE DAMAGE/EYE IRRITATION	: Rabbit : Eye, Mild~Moderate(DFGOT vol.3,1992)
GERM CELL MUTAGENICITY	: No data available
CARCINOGENICITY	: No data available
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY - single exposure)	
	: Human: irritate to respiratory tract (Environment risk assessment vol.4, 2005)
SPECIFIC TARGET ORGAN TOXICITY -(epeated exposure)	
	: Rat: damage to liver, thyroid, kidney, nasal cavity CaPSAR(1993), PATTY(5th,2001),Environment risk assessment vol.4(2005))
ASPIRATION TOXICITY	: No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY	: Oryzias latipes : LC50= 3.2mg/L/96hr
BIODEGRADABILITY	: There is no rapidly biodegradability.
BIOACCUMULATION POTENTIAL	: It may occur in fish.
MOBILITY IN SOIL	: No data available
OTHER ADVERSE EFFECTS	: Not listed in Montreal Protocol list.

13. DISPOSAL INFORMATION

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

14. TRANSPORT INFORMATION

IATA	: Not established
ADR/RID	: Not established
DOT	: Not established
MARINE POLLUTANT	: No

15. REGULATORY INFORMATION

US REGULATIONS	: Labeling according to EC Directives; See section 2
EU REGULATIONS	: Labeling according to EC Directives; See section 2

16. OTHER INFORMATION

NOTICE:

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

Attention:

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.