# GHEMSERVIGE .....

# SAFETY DATA SHEET

### 1. Identification

1. Identification			
Product identifier	3,5-Dichlorobenzoic acid Sol	ution	
Other means of identification			
ltem	S-10770T5		
Recommended use	For Laboratory Use Only		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380		
Telephone	United States Toll Free	800-452-9994	
relephone	Direct	610-692-3026	
Website	www.chemservice.com	010 002 0020	
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-3	387
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 5
	Acute toxicity, dermal		Category 5
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritation		Category 2B
	Carcinogenicity		Category 2
	Specific target organ toxicity, si	ngle exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.		

**OSHA** defined hazards

Signal word

Hazard statement

Label elements



Danger

Not classified.

Highly flammable liquid and vapor. May be harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. Suspected of causing cancer.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement Prevention

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
t-Butyl methyl ether		1634-04-4	99 - 100
3,5-Dichlorobenzoic acid		51-36-5	0.2

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.	
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).	

# 8. Exposure controls/personal protection

# Occupational exposure limits

Components	Туре	Value	
t-Butyl methyl ether (CAS 1634-04-4)	TWA	50 ppm	
Biological limit values	No biological exposure limits note	d for the ingredient(s).	
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Chemical respirator with organic v	apor cartridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical resista supplier.	nt gloves. Suitable gloves can be recommended by the glove	
Other	Wear appropriate chemical resista	nt clothing. Use of an impervious apron is recommended.	
Respiratory protection	Chemical respirator with organic v	apor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protecti	ve clothing, when necessary.	

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-163.48 °F (-108.6 °C) estimated
Initial boiling point and boiling range	131.36 °F (55.2 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	333.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.7404 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	0.74 estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11 Toxicological informat	ion

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact	May be harmful in contact with skin. Causes skin irritation.
Eye contact	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

Acute toxicity	May be harmful if swallowed. May be	be harmful in contact with skin. May cause respiratory irritation	
Components	Species	Test Results	
-Butyl methyl ether (CAS 1634-04	1-4)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 10000 mg/kg	
	Rat	> 2000 mg/kg	
Inhalation			
LC50	Rat	85 mg/l, 4 Hours	
Oral			
LD50	Rat	> 2000 mg/kg	
		4 ml/kg	
Other			
LD50	Rabbit	> 10 ml/kg	
* Estimates for product may b	e based on additional component dat	a not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye rritation	Causes eye irritation.		
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
t-Butyl methyl ether (CAS US. OSHA Specifically Regu	S 1634-04-4) 3 N ulated Substances (29 CFR 1910.10	ot classifiable as to carcinogenicity to humans. <b>01-1050)</b>	
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - ingle exposure	May cause respiratory irritation.		
Specific target organ toxicity - epeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmf	ul.	
12. Ecological informatior	1		
Ecotoxicity		ironmentally hazardous. However, this does not exclude the lls can have a harmful or damaging effect on the environment	
Components	Species	Test Results	
t-Butyl methyl ether (CAS 163	34-04-4)		
Aquatic			

\* Estimates for product may be based on additional component data not shown.

### Partition coefficient n-octanol / water (log Kow)

t-Butyl methyl ether	0.94
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

#### DOT

DOT	
UN number	UN2398
UN proper shipping name	<ul> <li>Methyl tert-butyl ether, solution (t-Butyl methyl ether RQ = 1002 LBS)</li> </ul>
Transport hazard class(e	s)
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Special precautions for u	ser Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN2398
UN proper shipping name	
Transport hazard class(e	s)
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3L
	ser Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft Cargo aircraft only	Allowed.
IMDG	Allowed.
UN number	UN2398
UN proper shipping name	
Transport hazard class(e	
Class	3
Subsidiary risk	-
Packing group	П
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
	<b>Iser</b> Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according toNot established.Annex II of MARPOL 73/78 andthe IBC Code





#### 15. Regulatory information

15. Regulatory miormatic	/11			
US federal regulations	This product is a "Hazar Standard, 29 CFR 1910 One or more componen	.1200.		Communication
TSCA Section 12(b) Export	Notification (40 CFR 707	, Subpt. D)		
Not regulated. CERCLA Hazardous Subst	ance List (40 CFR 302.4)			
t-Butyl methyl ether (CA SARA 304 Emergency relea		Listed.		
Not regulated. US. OSHA Specifically Reg	ulated Substances (29 CI	FR 1910.1001-1050)		
Not listed.	•			
Superfund Amendments and R	eauthorization Act of 198	6 (SARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely haza	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
t-Butyl methyl ether		1634-04-4	99 - 100	
Other federal regulations				
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Poll	utants (HAPs) List		
t-Butyl methyl ether (CA Clean Air Act (CAA) Sectio	,	se Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			

#### **US state regulations**

- US New Jersey RTK Substances: Listed substance
  - t-Butyl methyl ether (CAS 1634-04-4)
- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
- (a))

t-Butyl methyl ether (CAS 1634-04-4)

US. Massachusetts RTK - Substance List

t-Butyl methyl ether (CAS 1634-04-4)

- US. New Jersey Worker and Community Right-to-Know Act t-Butyl methyl ether (CAS 1634-04-4)
- US. Pennsylvania RTK Hazardous Substances t-Butyl methyl ether (CAS 1634-04-4)
- US. Pennsylvania Worker and Community Right-to-Know Law t-Butyl methyl ether (CAS 1634-04-4)

US. Rhode Island RTK

t-Butyl methyl ether (CAS 1634-04-4)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	10-30-2015
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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