GHEMSERVICE

SAFETY DATA SHEET

1. Identification

Product identifier	2,4-D isooctyl ester Solution		
Other means of identification			
Item	S-10615T1		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380		
	United States		
Telephone	Toll Free	800-452-9994	
	Direct	610-692-3026	j
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-38	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 irritati	on	Category 2B
	Carcinogenicity		Category 2

Environmental hazards OSHA defined hazards

Label elements



Danger

Not classified. Not classified.

Hazard statement

Signal word

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.

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

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
2,4-D isooctyl ester		25168-26-7	0.01

*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

0. Accidental release meas	
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 noted	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 equi	oment
Eye/face protection	Chemical respirator with organic vapor 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 protective	e 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

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	0.74044 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

Inhalation

Information on likely routes of exposure

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	city May be harmful if swallowed. May be harmful in contact with skin. May cause respiratory i		
Components	Species	Test Results	
2,4-D isooctyl ester (CAS 25168	3-26-7)		
Acute			
Dermal			
LD50	Rabbit	> 4000 mg/kg	
Oral			
LD50	Rat	982 mg/kg	
t-Butyl methyl ether (CAS 1634-	04-4)		
Acute			
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	
	be based on additional component data	not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitizati	on		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause	e skin sensitization.	
Germ cell mutagenicity	No data available to indicate product mutagenic or genotoxic.	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. Overa	II Evaluation of Carcinogenicity		
t-Butyl methyl ether (C/ US. OSHA Specifically Re	AS 1634-04-4) 3 No gulated Substances (29 CFR 1910.100	t classifiable as to carcinogenicity to humans. 1-1050)	
Not listed.			
Reproductive toxicity	This product is not expected to cause	e reproductive or developmental effects.	
Specific target organ toxicity single exposure	 May cause respiratory irritation. 		
Specific target organ toxicity repeated exposure	- Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful		
12. Ecological information	on		

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2,4-D isooctyl ester (CAS 2516	8-26-7)	
Aquatic		
Fish L	.C50 Cutthroat trout (Oncorhynchus clarki)	> 50 mg/l, 96 hours
t-Butyl methyl ether (CAS 1634	l-04-4)	
Aquatic		
Fish L	.C50 Fathead minnow (Pimephales promelas) 672 mg/l, 96 hours
• •	based on additional component data not shown.	
Persistence and degradability	No data is available on the degradability of this product	
Bioaccumulative potential		
Partition coefficient n-octand t-Butyl methyl ether	ol / water (log Kow) 0.94	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone dep potential, endocrine disruption, global warming potentia	
13. Disposal consideration	s	
Disposal instructions	Collect and reclaim or dispose in sealed containers at li contents/container in accordance with local/regional/national/regional/	
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		
UN number	UN2398	
UN proper shipping name Transport hazard class(es)	Methyl tert-butyl ether, solution (t-Butyl methyl ether RC	Q = 1000 LBS)
Class	3	
Subsidiary risk	-	
Label(s)	3	
Packing group Special precautions for user	Read safety instructions, SDS and emergency procedu	res before handling
Special provisions	IB2, T7, TP1	lee belere handling.
Packaging exceptions	150	
Packaging non bulk	202	
Packaging bulk	242	
	1102200	
UN number UN proper shipping name Transport hazard class(es)	UN2398 Methyl tert-butyl ether solution (t-Butyl methyl ether)	
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards	No.	
ERG Code	3L	
Other information	Read safety instructions, SDS and emergency procedu	res before handling.
Passenger and cargo aircraft	Allowed.	
Cargo aircraft only	Allowed.	

IMDG

UN number	UN2398
UN proper shipping name Transport hazard class(es)	METHYL tert-BUTYL ETHER solution (t-Butyl methyl ether)
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established.

DOT

the IBC Code



15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US federal regulations

CERCLA Hazardous Substance List (40 CFR 302.4)

•		
2,4-D isooctyl ester (CAS 25168-26-7)	List	ted.
t-Butyl methyl ether (CAS 1634-04-4)	List	ted.
SARA 304 Emergency release notification		
Not regulated.		

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

	(
Hazard categories	Immediate Hazard - Yes
-	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting) Chemical name CAS number %, by wt. 1-Butyl methyl ether 1634-04-4 99 - 100 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List 2.4-D isoochy ester (CAS 25168-26-7) 1-Butyl methyl ether (CAS 1634-04-4) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. Safe Drinking Water Act Not regulated. Safe Drinking Water Act Not regulated. US. California Controlled 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 1110) Not listed. US. California Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, (a)) US. Balfornia Candidate CAS 1634-04-4) US. Massachusetts RTK - Substance List 2.4-D isoochyl ester (CAS 25168-26-7) U-Butyl methyl ether (CAS 1634-04.4) US. Pennsylvania RTK - Hazardous Substances 2.4-D isoochyl ester (CAS 25168-26-7) U-Butyl methyl ether (CAS 1634-04.4) US. Pennsylvania Worker and Community Right-to-Know Law 2.4-D isoochyl ester (CAS 25168-26-7) U-Butyl methyl ether (CAS 1634-04.4)	chemical				
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*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	09-16-2015
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer	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.
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