CHEMSERVICE.

SAFETY DATA SHEET

1. Identification

1. Idontinoution			
Product identifier	Clodinafop-propargyl Solutio	on	
Other means of identification			
Item	S-11489U1		
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	4
	Direct	610-692-3026	6
Website	www.chemservice.com		
E-mail	info@chemservice.com Chemtrec US	800-424-9300)
Emergency phone number	Chemtrec outside US	+1 703-527-3	
2 Honord(a) identification			
2. Hazard(s) identification			_
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, inhalation		Category 4
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritat	ion	Category 2A
	Sensitization, skin		Category 1
	Reproductive toxicity		Category 2
	Specific target organ toxicity, s	ingle exposure	Category 3 narcotic effects
	Specific target organ toxicity, re exposure	epeated	Category 2
Environmental hazards	Hazardous to the aquatic envir hazard	onment, acute	Category 2
	Hazardous to the aquatic envir long-term hazard	onment,	Category 2
OSHA defined hazards	Not classified.		

Label elements



Signal word Hazard statement Danger

Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. 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. Rinse mouth. If skin irritation or rash 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. Collect spillage.
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)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	99 - 100
Clodinafop-propargyl		105512-06-9	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
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 warm. 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. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. **media**

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. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	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.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.

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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe 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. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National
Conditions for safe storage, including any incompatibilities	Fire Protection Association (NFPA) 70, "National Electrical Code". Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. 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		Va	lue	
Toluene (CAS 108-88-3)		Ceiling	g	30	0 ppm	
		TWA		20	0 ppm	
US. ACGIH Threshold Lir	mit Values					
Components		Туре		Va	lue	
Toluene (CAS 108-88-3)		TWA		20	ppm	
US. NIOSH: Pocket Guide	e to Chemical Ha	zards				
Components		Туре		Va	lue	
Toluene (CAS 108-88-3)		STEL		56	0 mg/m3	
				15	0 ppm	
				07	E ma/m2	
		TWA		37	5 mg/m3	
		TWA			o ppm	
ogical limit values		TWA			0	
ogical limit values ACGIH Biological Exposi	ure Indices	TWA			0	
ACGIH Biological Exposi	ure Indices Value	TWA	Determinant		0	
ACGIH Biological Exposi Components		TWA	Determinant o-Cresol, with	10	0 ppm	
ACGIH Biological Exposi Components	Value 0.3 mg/g	TWA	o-Cresol, with hydrolysis	10 Specimen Creatinine in urine	0 ppm Sampling Time *	
ACGIH Biological Exposi Components	Value 0.3 mg/g 0.03 mg/l	TWA	o-Cresol, with hydrolysis Toluene	10 Specimen Creatinine in urine Urine	0 ppm Sampling Time * *	
ACGIH Biological Expose Components Toluene (CAS 108-88-3)	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l		o-Cresol, with hydrolysis Toluene Toluene	10 Specimen Creatinine in urine	0 ppm Sampling Time *	
ACGIH Biological Exposi Components	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l		o-Cresol, with hydrolysis Toluene Toluene	10 Specimen Creatinine in urine Urine	0 ppm Sampling Time * *	
ACGIH Biological Expose Components Toluene (CAS 108-88-3) * - For sampling details, ple	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l		o-Cresol, with hydrolysis Toluene Toluene	10 Specimen Creatinine in urine Urine	0 ppm Sampling Time * *	
ACGIH Biological Expose Components Toluene (CAS 108-88-3) * - For sampling details, ple osure guidelines	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l ease see the sourc		o-Cresol, with hydrolysis Toluene Toluene	10 Specimen Creatinine in urine Urine	0 ppm Sampling Time * *	
ACGIH Biological Expose Components Toluene (CAS 108-88-3) * - For sampling details, pla osure guidelines US - California OELs: Ski	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l ease see the sourc in designation		o-Cresol, with hydrolysis Toluene Toluene ment.	10 Specimen Creatinine in urine Urine	0 ppm Sampling Time * * *	
ACGIH Biological Expose Components Toluene (CAS 108-88-3) * - For sampling details, pla osure guidelines	Value 0.3 mg/g 0.03 mg/l 0.02 mg/l ease see the sourc in designation -3)	ce docui	o-Cresol, with hydrolysis Toluene Toluene ment. Can be	10 Specimen Creatinine in urine Urine Blood	0 ppm Sampling Time * * *	

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 vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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. Contaminated work clothing should not be allowed out of the workplace.

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	-138.82 °F (-94.9 °C) estimated
Initial boiling point and boiling range	231.08 °F (110.6 °C) estimated
Flash point	40.0 °F (4.4 °C) estimated
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	37.86 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	896 °F (480 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.86355 g/cm3 estimated
Explosive properties	Not explosive.

Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.99 % estimated
Specific gravity	0.86 estimated
VOC (Weight %)	99.99 % 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. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful if swallowed. Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test Results
Clodinafop-propargyl (CAS 105512-06-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
	Rat	> 4000 mg/kg
Inhalation		
LC50	Rat	2.325 mg/l, 4 Hours
Oral		
LD50	Rat	1392 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
		14.1 ml/kg
Inhalation		
LC50	Mouse	6405 - 7436 ppm, 6 Hours
		5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		5879 - 6281 ppm, 6 Hours

Components	Species	Test Results
		12.5 - 28.8 mg/l, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
Other		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg
* Estimates for product may b	e based on additional component data not show	wn.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcine	ogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Toluene (CAS 108-88-3)		able as to carcinogenicity to humans.
	ulated Substances (29 CFR 1910.1001-1050)	
Not listed.		
Reproductive toxicity	Suspected of damaging fertility or the unborn	i child.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolon	nged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May cause damage to organs through prolon be harmful.	nged or repeated exposure. Prolonged inhalation may

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.		
Components		Species	Test Results
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

* Estimates for product may be 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-octanol / water (log Kow)		
Clodinafop-propargyl	3.9	
Toluene	2.73	
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

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Disposal instructions
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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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

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DO	т	
	UN number	UN1294
	UN proper shipping name	Toluene, solution (Toluene RQ = 1000 LBS)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	11
	Environmental hazards	
	Marine pollutant	Yes
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	IB2, T4, TP1
	Packaging exceptions	150
	Packaging non bulk	202
	Packaging bulk	242
IAT	A	
	UN number	UN1294
	UN proper shipping name	Toluene solution (Toluene)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	
	Environmental hazards	Yes
	ERG Code	3L
		Read safety instructions, SDS and emergency procedures before handling.
	Other information	A.I
	Passenger and cargo	Allowed.
	aircraft Cargo aircraft only	Allowed.
IME	• •	Allowed.
11416	UN number	UN1294
	UN proper shipping name	TOLUENE SOLUTION (Toluene)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	11
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-E, S-D
	•	Read safety instructions, SDS and emergency procedures before handling.
Tra	nsport in bulk according to	Not established.
	nex II of MARPOL 73/78 and	
the	IBC Code	







IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

	Standard, 29 CFR 1910.1200 One or more components are	0.	ed by the OSHA Hazard Communicati	
TSCA Section 12(b) Export	Notification (40 CFR 707, Sub	opt. D)		
Not regulated.				
CERCLA Hazardous Subst	ance List (40 CFR 302.4)			
Toluene (CAS 108-88-3)	Listed.		
SARA 304 Emergency rele	ase notification			
Not regulated.				
US. OSHA Specifically Rec	ulated Substances (29 CFR 19	910.1001-1050)		
Not listed.				
uperfund Amendments and R	eauthorization Act of 1986 (SA	ARA)		
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.	
Toluene		108-88-3	99 - 100	
Not regulated. US. OSHA Specifically Reg Not listed. uperfund Amendments and R Hazard categories SARA 302 Extremely hazar Not listed. SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Chemical name	ulated Substances (29 CFR 19 eauthorization Act of 1986 (S/ Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No rdous substance	ARA) CAS number		

Other federal regulations			
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List			
Toluene (CAS 108-88-3)			
· · · · · · · · · · · · · · · · · · ·	Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)		
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
Drug Enforcement Adm Chemical Code Number		ntial Chemicals (21 CFR 1310.02(b)	and 1310.04(f)(2) and
Toluene (CAS 108-8		6594	
_		xempt Chemical Mixtures (21 CFR 1	310.12(c))
Toluene (CAS 108-8 DEA Exempt Chemical	³⁸⁻³⁾ Mixtures Code Number	35 %WV	
Toluene (CAS 108-8	38-3)	594	
US state regulations			
US - New Jersey RTK - Sub	stances: Listed substance		
Toluene (CAS 108-88-3) US. California Controlled Su		Justice (California Health and Safety	/ Code Section 11100)
	hemicals List. Safer Consume	r Products Regulations (Cal. Code F	Regs, tit. 22, 69502.3, subd.
(a))			
Toluene (CAS 108-88-3) US. Massachusetts RTK - S			
Toluene (CAS 108-88-3)			
	d Community Right-to-Know A	ct	
Toluene (CAS 108-88-3) US. Pennsylvania RTK - Haz	zardous Substances		
Toluene (CAS 108-88-3)		•	
-	US. Pennsylvania Worker and Community Right-to-Know Law		
US. Rhode Island RTK	Toluene (CAS 108-88-3) US. Rhode Island RTK		
Toluene (CAS 108-88-3)			
US. California Proposition 6 WARNING: This product harm.		e State of California to cause birth def	ects or other reproductive
US - California Proposit	tion 65 - CRT: Listed date/Deve	elopmental toxin	
Toluene (CAS 108-8 US - California Proposit	8-3) tion 65 - CRT: Listed date/Fem	Listed: January 1, 1991 ale reproductive toxin	
Toluene (CAS 108-8		Listed: August 7, 2009	
International Inventories			
Country(s) or region Australia	Inventory name Australian Inventory of Chemi	cal Substances (AICS)	On inventory (yes/no) * No
Canada	Domestic Substances List (DS		No
Canada	Non-Domestic Substances List	·	No
China		I Substances in China (IECSC)	No
Europe	European Inventory of Existing		No
	Substances (EINECS)	-	
Europe	European List of Notified Cher		No
Japan		Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)		No
New Zealand	New Zealand Inventory		Yes
Philippines	Philippine Inventory of Chemic (PICCS)	cals and Chemical Substances	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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	11-30-2015
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.
	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.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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