SAFETY DATA SHEET

CHEMSERVICE.

1. Identification

Product identifier	Chlorinated Herbicides Mixtu	ıre-8150/515.1	
Other means of identification			
ltem	M-CH8150B1		
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	3
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-38	887
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Serious eye damage/eye irritati	ion	Category 2A
	Specific target organ toxicity, si	ingle exposure	Category 3 narcotic effects
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 3
	Hazardous to the aquatic environ long-term hazard	onment,	Category 3
OSHA defined hazards	Not classified.		



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	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. Avoid release to the environment. Wear eye protection/face protection.
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. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. 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.

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.

99.9% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.9% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	99 - 100
2,4,5-T (TM)		93-76-5	0.01
2,4-D		94-75-7	0.01
2,4-DB		94-82-6	0.01
4-Chloro-o-tolyloxyacetic acid		94-74-6	0.01
Dalapon		75-99-0	0.01
Dicamba		1918-00-9	0.01
Dichlorprop		120-36-5	0.01
Dinoseb		88-85-7	0.01
Месоргор		7085-19-0	0.01
Silvex		93-72-1	0.01

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 attention if irritation develops and persists.
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. Get medical attention if symptoms occur.
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.
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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
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. 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. Avoid breathing 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.	
	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. Prevent product from entering drains. 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 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	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. 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. Avoid breathing mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. 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 Fire Protection Association (NFPA) 70, "National Electrical Code".	
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. 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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
2,4,5-T (TM) (CAS 93-76-5)	PEL	10 mg/m3	
2,4-D (CAS 94-75-7)	PEL	10 mg/m3	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	

US. ACGIH Threshold Limit			V	alue	Form
Components	Туре				
2,4,5-T (TM) (CAS 93-76-5)	TWA) mg/m3	
2,4-D (CAS 94-75-7)	TWA) mg/m3	Inhalable fraction.
Acetone (CAS 67-64-1)	STEL			50 ppm	
Dalapon (CAS 75.00.0)	TWA TWA)0 ppm mg/m3	Inhalable fraction.
Dalapon (CAS 75-99-0)			5	ing/ins	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type		Va	alue	
2,4,5-T (TM) (CAS 93-76-5)	TWA		1() mg/m3	
2,4-D (CAS 94-75-7)	TWA) mg/m3	
Acetone (CAS 67-64-1)	TWA			90 mg/m3	
			25	50 ppm	
Dalapon (CAS 75-99-0)	TWA		6	mg/m3	
			1	ppm	
iological limit values					
ACGIH Biological Exposure	Indices				
•	/alue	Determinant	Specimen	Sampling Ti	ime
Acetone (CAS 67-64-1) 5	50 mg/l	Acetone	Urine	*	
* - For sampling details, pleas	se see the source docu	iment.			
xposure guidelines					
US ACGIH Threshold Limit	Values: Skin designa	tion			
2,4-D (CAS 94-75-7)			e absorbed throu	ugh the skin.	
ppropriate engineering	Explosion-proof gen			•	entilation (typically 10 air
ontrols	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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.				
dividual protection measures	-	-			
Eye/face protection	Chemical respirator			ull facepiece.	
Skin protection		5 1	0	·	
Hand protection	Wear appropriate ch supplier.	emical resistant g	loves. Suitable g	gloves can be re	ecommended by the glove
Other	Wear suitable prote	ctive clothina.			
Respiratory protection	•	•	r cartridge and f	ull facepiece.	
Thermal hazards	Chemical respirator with organic vapor cartridge and full facepiece. Wear appropriate thermal protective clothing, when necessary.				
eneral hygiene	When using do not smoke. Always observe good personal hygiene measures, such as washing				
onsiderations	after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.				
. Physical and chemical	properties				
ppearance					
Physical state	Liquid.				
Form	Liquid.				
Color	Not available.				
dor	Not available.				
dor threshold	Not available.				
Н	Not available.				

Melting point/freezing point Initial boiling point and boiling

range Flash point -138.46 °F (-94.7 °C) estimated

132.89 °F (56.05 °C) estimated

-4.0 °F (-20.0 °C) estimated

Fla	ammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits		
	Flammability limit - lower (%)	2.6 % estimated
	Flammability limit - upper (%)	12.8 % estimated
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Va	por pressure	309.3 hPa estimated
Va	por density	Not available.
Re	elative density	Not available.
So	olubility(ies)	
	Solubility (water)	Not available.
	rtition coefficient -octanol/water)	Not available.
Au	ito-ignition temperature	869 °F (465 °C) estimated
De	composition temperature	Not available.
Vi	scosity	Not available.
Ot	her information	
	Density	0.79033 g/cm3 estimated
	Explosive properties	Not explosive.
	Flammability class	Flammable IB estimated
	Oxidizing properties	Not oxidizing.
	Percent volatile	99.9 % estimated
	Specific gravity	0.79 estimated
	VOC (Weight %)	99.9 % 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	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
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.
Information on toxicological eff	fects
Acute toxicity	Narcotic effects.

Components	Species	Test Results
2,4,5-T (TM) (CAS 93-76-5)		
Acute		
Oral	Dog	> 100 mallia
LD50	Dog	> 100 mg/kg
	Guinea pig	381 mg/kg
	Mouse	389 mg/kg
	Rat	500 mg/kg
2,4-D (CAS 94-75-7)		
<u>Acute</u> Dermal		
LD50	Rabbit	1400 mg/kg
	Rat	2000 mg/kg
Oral		2000 mg/kg
LD50	Dog	100 mg/kg
	Fischer 344 rat	270 - 1103 mg/kg
	Guinea pig	469 mg/kg
	Hamster	500 mg/kg
	Mouse	300 mg/kg
	Rabbit	800 mg/kg
	Rat	275 mg/kg
2,4-DB (CAS 94-82-6)	Kat	270 mg/kg
<u>Acute</u>		
Oral		
LD50	Mouse	400 mg/kg
	Rat	700 mg/kg
4-Chloro-o-tolyloxyacetic aci	id (CAS 94-74-6)	
Acute	· · · ·	
Oral		
LD50	Mouse	439 mg/kg
	Rat	700 mg/kg
Acetone (CAS 67-64-1)		
<u>Acute</u>		
Dermal		7400
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
<i>Vapor</i> LC50	Rat	55700 ppm, 3 Hours
2000	Nat	132 mg/l, 3 Hours
1.050	Det	
LC50	Rat	76 mg/l, 4 Hours
<i>Vapor</i> LC50	Rat	50.1 mg/l
LC50	Rat	50.1 mg/l, 8 Hours
	nat	
Oral LD50	Mouse	5.2 g/kg
	Rat	5800 mg/kg
	i tat	

Components	Species	Test Results
		2.2 ml/kg
Dalapon (CAS 75-99-0)		
<u>Acute</u>		
Dermal	Det	. 5000
LD50	Rat	> 5000 mg/kg
Oral LD50	Chicken	
LD50		5660 mg/kg
	Cow	> 4000 mg/kg
	Guinea pig	3860 mg/kg
	Mouse	> 4600 mg/kg
	Rabbit	3860 mg/kg
	Rat	6936 mg/kg
Dicamba (CAS 1918-00-9)		
Acute		
Dermal	Det	
LD50	Rat	2000 mg/kg
Oral LD50	Guinea pig	566 - 3000 mg/kg
LD50	Rabbit	
		566 - 2000 mg/kg
	Rat	757 mg/kg
Dichlorprop (CAS 120-36-5)		
<u>Acute</u> Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	> 0.65 mg/l, 4 Hours
Oral		
LD50	Mouse	309.4 mg/kg
	Rat	344 mg/kg
Dinoseb (CAS 88-85-7)		
Acute		
Dermal		
LD50	Guinea pig	100 mg/kg
	Rat	30 mg/kg, 24 Hours
		0.12 ml/kg, 24 Hours
Oral		
LD100	Rat	60 mg/kg
LD50	Rat	27 mg/kg
Mecoprop (CAS 7085-19-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	900 mg/kg
Oral		
LD50	Mouse	600 mg/kg
	Rat	1060 mg/kg
Silvex (CAS 93-72-1)		
<u>Acute</u>		
Oral		000
LD50	Chicken	2000 mg/kg

Components	Species	Test Results	
	Guinea pig	850 mg/kg	
	Mouse	276 mg/kg	
	Rabbit	850 mg/kg	
	Rat	650 mg/kg	
* Estimates for product may t	be based on additional comp	onent data not shown.	
Skin corrosion/irritation	Prolonged skin contact ma	ay cause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritat	ion.	
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitize	er.	
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	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of Carcinogeni	city	
2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) 2,4-DB (CAS 94-82-6) 4-Chloro-o-tolyloxyacetic acid (CAS 94-74-6) Dichlorprop (CAS 120-36-5) US. OSHA Specifically Regulated Substances (29 CFR		2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans.	
Not listed.			
Reproductive toxicity	This product is not expect	ed to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may	be harmful.	
12. Ecological information	n		
Ecotoxicity	Harmful to aquatic life with	n long lasting effects.	
Components	Species	Test Results	

Components		Species	Test Results
2,4,5-T (TM) (CAS 93-7	76-5)		
Aquatic			
Fish	LC50	Carp (Cyprinus carpio)	5.3 mg/l, 96 hours
2,4-D (CAS 94-75-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.4 - 4.3 mg/l, 48 hours
Fish	LC50	Fish (Labeo boga)	3.8 mg/l, 96 hours
2,4-DB (CAS 94-82-6)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.2 - 3.2 mg/l, 96 hours
4-Chloro-o-tolyloxyacet	ic acid (CAS 94-74	4-6)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10 mg/l, 96 hours
Acetone (CAS 67-64-1)	1		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Dalapon (CAS 75-99-0)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	8.2 - 14.7 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 100 mg/l, 96 hours
Dicamba (CAS 1918-00-	9)		
Aquatic			
Crustacea	EC50	Ostracod, Seed shrimp (Cypridopsis vidua)	> 100 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	28 mg/l, 96 hours
Dichlorprop (CAS 120-36	6-5)		
Aquatic			
Fish	LC50	Brown trout (Salmo trutta)	78 mg/l, 96 hours
Dinoseb (CAS 88-85-7)			
Aquatic			
Fish	LC50	Lake trout, siscowet (Salvelinus namaycush)	0.024 - 0.054 mg/l, 96 hours
Silvex (CAS 93-72-1)			
Aquatic			
Crustacea	EC50	Water flea (Simocephalus serrulatus)	2 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	0.5 - 0.8 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-oct	anol / water (log Kow)	
2,4,5-T (TM)		4
2,4-D		2.81
2,4-DB		3.53
4-Chloro-o-tolyloxyacetic ac	cid	3.25
Acetone		-0.24
Dalapon		0.778
Dicamba		2.21
Mecoprop		3.13
Silvex		3.8
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effect	

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. 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.
US RCRA Hazardous Was	te P List: Reference

Dinoseb (CAS 88-85-7)	P020
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).

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	UN1090
UN proper shipping name	Acetone, solution (Acetone RQ = 5005 LBS)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T4, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1090
UN proper shipping name	Acetone solution (Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1090
UN proper shipping name	ACETONE SOLUTION (Acetone)
Transport hazard class(es)	
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	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	





15. Regulatory information

US federal regulations	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) Exp	oort Notification	(40 CFR 707, Sı	ıbpt. D)		
Dichlorprop (CAS 12	0-36-5)		0.1 % One-Tim	ne Export Notification on	ly.
CERCLA Hazardous Su	bstance List (40	CFR 302.4)			
2,4,5-T (TM) (CAS 9	3-76-5)		Listed.		
2,4-D (CAS 94-75-7)			Listed.		
Acetone (CAS 67-64	-1)		Listed.		
Dalapon (CAS 75-99			Listed.		
Dicamba (CAS 1918-00-9)		Listed.			
Dinoseb (CAS 88-85-7)		Listed.			
	Silvex (CAS 93-72-1)		Listed.		
SARA 304 Emergency r	elease notification	on			
Dinoseb (CAS 88-85	-7)		1000 LBS		
US. OSHA Specifically F	Regulated Substa	ances (29 CFR	1910.1001-1050)		
Not listed.					
Superfund Amendments and	d Reauthorizatio	n Act of 1986 (S	SARA)		
Hazard categories	Delayed Ha Fire Hazard Pressure H	d - Yes			
SARA 302 Extremely ha	azardous substai	nce			
			T I	Thus a last of	Thusehold

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Dinoseb	88-85-7	1000		100 lbs	10000 lbs
SARA 311/312 Hazardou chemical	s No				
SARA 313 (TRI reporting Not regulated.)				
ner federal regulations					
Clean Air Act (CAA) Sect	tion 112 Hazardo	ous Air Pollutai	nts (HAPs) List		
2,4-D (CAS 94-75-7)					
Clean Air Act (CAA) Sec	tion 112(r) Accid	lental Release	Prevention (40 CFR 6	8.130)	
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulate	ed.			
Drug Enforcement A Chemical Code Num		DEA). List 2, Es	sential Chemicals (21	CFR 1310.02(b) and 1	310.04(f)(2) and
Acetone (CAS 67	'-64-1)		6532		
Drug Enforcement A	dministration (I	DEA). List 1 & 2	Exempt Chemical Mi	xtures (21 CFR 1310.1	2(c))
Acetone (CAS 67	'-64-1)		35 %WV		
DEA Exempt Chemic	cal Mixtures Coo	de Number			
Acetone (CAS 67	'-64-1)		6532		

US state regulations

US - New Jersey RTK - Substances: Listed substance

2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) 2,4-DB (CAS 94-82-6) 4-Chloro-o-tolyloxyacetic acid (CAS 94-74-6) Acetone (CAS 67-64-1) Dalapon (CAS 75-99-0) Dicamba (CAS 1918-00-9) Dichlorprop (CAS 120-36-5) Dinoseb (CAS 88-85-7) Mecoprop (CAS 7085-19-0) Silvex (CAS 93-72-1)

- 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))

Acetone (CAS 67-64-1)

US. Massachusetts RTK - Substance List

2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) Acetone (CAS 67-64-1) Dalapon (CAS 75-99-0) Dicamba (CAS 1918-00-9) Dinoseb (CAS 88-85-7) Silvex (CAS 93-72-1)

US. New Jersey Worker and Community Right-to-Know Act

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2,4,5-T (TM) (CAS 93-76-5)
2,4-D (CAS 94-75-7)
2,4-DB (CAS 94-82-6)
4-Chloro-o-tolyloxyacetic acid (CAS 94-74-6)
Dicamba (CAS 1918-00-9)
Dichlorprop (CAS 120-36-5)
Dinoseb (CAS 88-85-7)
Mecoprop (CAS 7085-19-0)
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US. Pennsylvania RTK - Hazardous Substances

2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) Acetone (CAS 67-64-1) Dalapon (CAS 75-99-0) Dicamba (CAS 1918-00-9) Dinoseb (CAS 88-85-7) Silvex (CAS 93-72-1)

US. Pennsylvania Worker and Community Right-to-Know Law

2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) Acetone (CAS 67-64-1) Dalapon (CAS 75-99-0) Dicamba (CAS 1918-00-9) Dinoseb (CAS 88-85-7) Silvex (CAS 93-72-1)

US. Rhode Island RTK

2,4,5-T (TM) (CAS 93-76-5) 2,4-D (CAS 94-75-7) 2,4-DB (CAS 94-82-6) 4-Chloro-o-tolyloxyacetic acid (CAS 94-74-6) Acetone (CAS 67-64-1) Dalapon (CAS 75-99-0) Dicamba (CAS 1918-00-9) Dichlorprop (CAS 120-36-5) Dinoseb (CAS 88-85-7) Mecoprop (CAS 7085-19-0) Silvex (CAS 93-72-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Dinoseb (CAS 88-85-7)	Listed: January 1, 1989			
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin				
2,4-DB (CAS 94-82-6)	Listed: June 18, 1999			
Dinoseb (CAS 88-85-7)	Listed: January 1, 1989			

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)	No
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	09-08-2014
Revision date	08-25-2016
Version #	03
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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Revision Information

This document has undergone significant changes and should be reviewed in its entirety.