SAFETY DATA SHEET



1. Identification

Product identifier Organophosphorous Pesticide Mixture #1 - 1618

Other means of identification

M-OPP16181K99

Recommended use For Laboratory Use Only

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Chem Service, Inc. 660 Tower Lane **Address**

West Chester, PA 19380

United States

Toll Free 800-452-9994 **Telephone**

Direct 610-692-3026

Website www.chemservice.com E-mail info@chemservice.com

Chemtrec US 800-424-9300 **Emergency phone number**

Chemtrec outside US +1 703-527-3887

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2 Health hazards Acute toxicity, oral Category 4 Acute toxicity, dermal Category 4

Skin corrosion/irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Causes

skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic

Category 1

life with long lasting effects.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a

well-ventilated area. 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. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing. Wear protective gloves/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. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: 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.

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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 0.01% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Isooctane	2,2,4-Trimethylpentane	540-84-1	>99
Fensulfothion	Fensulfothion		0.02
S,S,S-Tributyl phosphorotrit	hioate	78-48-8	0.02
Azinphos-methyl		86-50-0	0.01
Diazinon		333-41-5	0.01
Dimethoate		60-51-5	0.01
EPN		2104-64-5	0.01
Fenchlorphos		299-84-3	0.01
Guthion Ethyl		2642-71-9	0.01
Malathion		121-75-5	0.01
Methyl parathion		298-00-0	0.01
Parathion (TM)		56-38-2	0.01
Phorate		298-02-2	0.01
Prophos		13194-48-4	0.01
Terbufos		13071-79-9	0.01
Tetrachlorvinphos		22248-79-9	0.01
Trichlorphon		52-68-6	0.01
Coumaphos		56-72-4	0.005
Dichlorvos		62-73-7	0.005
Sulprofos		35400-43-2	0.005

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

4. First-aid measures

Ingestion

delayed

Most important

treatment needed

General information

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. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Eye contactImmediately 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.

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Direct contact with eyes may cause temporary irritation. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain.

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. In case of shortness of breath, give

oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated

5. Fire-fighting measures

symptoms/effects, acute and

medical attention and special

Indication of immediate

Suitable extinguishing media Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

clothing before reuse.

Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media

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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 General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

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. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. 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: 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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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 taste or swallow. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

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".

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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. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits

IS. OSHA Table Z-1 Limits for Air components	Type	Value	Form
zinphos-methyl (CAS 6-50-0)	PEL	0.2 mg/m3	
ichlorvos (CAS 62-73-7)	PEL	1 mg/m3	
PN (CAS 2104-64-5)	PEL	0.5 mg/m3	
enchlorphos (CAS 99-84-3)	PEL	15 mg/m3	
sooctane (CAS 540-84-1)	PEL	2350 mg/m3 500 ppm	
lalathion (CAS 121-75-5)	PEL	15 mg/m3	Total dust.
arathion (TM) (CAS 6-38-2)	PEL	0.1 mg/m3	rotal duot.
S. ACGIH Threshold Limit Values			
omponents	Туре	Value	Form
zinphos-methyl (CAS 6-50-0)	TWA	0.2 mg/m3	Inhalable fraction and vapor.
coumaphos (CAS 56-72-4)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
viazinon (CAS 333-41-5)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
ichlorvos (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
PN (CAS 2104-64-5)	TWA	0.1 mg/m3	Inhalable fraction.
enchlorphos (CAS 99-84-3)	TWA	5 mg/m3	Inhalable fraction and vapor.
ensulfothion (CAS 15-90-2)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
lalathion (CAS 121-75-5)	TWA	1 mg/m3	Inhalable fraction and vapor.
lethyl parathion (CAS 98-00-0)	TWA	0.02 mg/m3	Inhalable fraction and vapor.
arathion (TM) (CAS 6-38-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
horate (CAS 298-02-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
ulprofos (CAS 5400-43-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
erbufos (CAS 13071-79-9)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
richlorphon (CAS 52-68-6)	TWA	1 mg/m3	Inhalable fraction.
S. NIOSH: Pocket Guide to Chem omponents	ical Hazards Type	Value	
zinphos-methyl (CAS 6-50-0)	TWA	0.2 mg/m3	
iazinon (CAS 333-41-5)	TWA	0.1 mg/m3	
ichlorvos (CAS 62-73-7)	TWA	1 mg/m3	
PN (CAS 2104-64-5)	TWA	0.5 mg/m3	
enchlorphos (CAS 99-84-3)	TWA	10 mg/m3	
ensulfothion (CAS 15-90-2)	TWA	0.1 ppm	
sooctane (CAS 540-84-1)	Ceiling	1800 mg/m3 385 ppm	
	TWA	350 mg/m3 75 ppm	
	TWA	10 mg/m3	

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US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Methyl parathion (CAS 298-00-0)	TWA	0.2 mg/m3	
Parathion (TM) (CAS 56-38-2)	TWA	0.05 mg/m3	
Phorate (CAS 298-02-2)	STEL	0.2 mg/m3	
	TWA	0.05 mg/m3	
Sulprofos (CAS 35400-43-2)	TWA	1 mg/m3	

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time	
Parathion (TM) (CAS 56-38-2)	70 %	Cholinesterase activity	Reduction from individual baseline activity in red blood cells	*	
	0.5 mg/g	Total p-nitrophenol	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Diazinon (CAS 333-41-5)	Can be absorbed through the skin.
Dichlorvos (CAS 62-73-7)	Can be absorbed through the skin.
EPN (CAS 2104-64-5)	Can be absorbed through the skin.
Malathion (CAS 121-75-5)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Parathion (TM) (CAS 56-38-2)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Azinphos-methyl (CAS 86-50-0)	Skin designation applies.
Diazinon (CAS 333-41-5)	Skin designation applies.
Dichlorvos (CAS 62-73-7)	Skin designation applies.
EPN (CAS 2104-64-5)	Skin designation applies.
Malathion (CAS 121-75-5)	Skin designation applies.
Methyl parathion (CAS 298-00-0)	Skin designation applies.
Parathion (TM) (CAS 56-38-2)	Skin designation applies.
Phorate (CAS 298-02-2)	Skin designation applies.

US - Tennesse OELs: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Diazinon (CAS 333-41-5)	Can be absorbed through the skin.
Dichlorvos (CAS 62-73-7)	Can be absorbed through the skin.
EPN (CAS 2104-64-5)	Can be absorbed through the skin.
Malathion (CAS 121-75-5)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Parathion (TM) (CAS 56-38-2)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

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Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Coumaphos (CAS 56-72-4)	Can be absorbed through the skin.
Diazinon (CAS 333-41-5)	Can be absorbed through the skin.
Dichlorvos (CAS 62-73-7)	Can be absorbed through the skin.
EPN (CAS 2104-64-5)	Can be absorbed through the skin.
Fensulfothion (CAS 115-90-2)	Can be absorbed through the skin.
Malathion (CAS 121-75-5)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Parathion (TM) (CAS 56-38-2)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.
Sulprofos (CAS 35400-43-2)	Can be absorbed through the skin.
Terbufos (CAS 13071-79-9)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Azinphos-methyl (CAS 86-50-0) Can be absorbed through the skin.

Diazinon (CAS 333-41-5)

Dichlorvos (CAS 62-73-7)

EPN (CAS 2104-64-5)

Malathion (CAS 121-75-5)

Methyl parathion (CAS 298-00-0)

Parathion (TM) (CAS 56-38-2)

Can be absorbed through the skin.

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

Azinphos-methyl (CAS 86-50-0)

Dichlorvos (CAS 62-73-7)

EPN (CAS 2104-64-5)

Malathion (CAS 121-75-5)

Parathion (TM) (CAS 56-38-2)

Can be absorbed through the skin.

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 Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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.

pH Not available.

Melting point/freezing point -161.41 °F (-107.45 °C) estimated Initial boiling point and boiling 210.63 °F (99.24 °C) estimated

range

Flash point 40.1 °F (4.5 °C) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.1 % estimated

(%)

Flammability limit - upper

4.7 % estimated

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Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 59.93 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

784 °F (417.78 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. Not available. **Viscosity**

Other information

0.699645 g/cm3 estimated **Density** Flammability class Flammable IB estimated

Specific gravity 0.7 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 Hazardous polymerization does not occur.

reactions

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

Ingestion Harmful if swallowed.

Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Prolonged inhalation may be harmful.

Skin contact Harmful in contact with skin. Causes skin irritation. Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Harmful if swallowed. Harmful in contact with skin. Narcotic effects. Expected to be a low hazard **Acute toxicity**

Components	Species	Test Results	
Azinphos-methyl (CAS 86-50	0-0)		
Acute			
Dermal			
LD50	Mouse	65 mg/kg	
	Rabbit	> 2000 mg/kg	
	Rat	220 mg/kg	
Inhalation			
LC50	Rat	0.31 mg/l, 1 Hours	
		0.15 mg/l, 4 Hours	
Oral			
LD50	Dog	> 10 mg/kg	
	Guinea pig	80 mg/kg	
	Mouse	15 mg/kg	
	Rat	4.4 mg/kg	
Other			
LD50	Rat	150 mg/kg, 24 Hours	
		4.9 mg/kg	
iazinon (CAS 333-41-5)			
Acute			
Dermal			
LD50	Mouse	2750 mg/kg	
	Rabbit	180 mg/kg	
	Rat	180 mg/kg	

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Components	Species	Test Results
Inhalation	Det	2000 11
LC50	Rat	> 2300 mg/kg
Oral LD50	Chieken	40.9 mg/kg
LD50	Chicken	40.8 mg/kg
	Goose	14.7 mg/kg
	Gosling	2.8 mg/kg
	Guinea pig	240 - 320 mg/kg
	Mouse	17 mg/kg
	Rabbit	143 mg/kg
	Rat	66 mg/kg
	Turkey	6.8 mg/kg
Other		
LD50	Mouse	180 mg/kg
Dichlorvos (CAS 62-73-7)		
Acute		
Dermal		
LD50	Mouse	206 mg/kg
	Rabbit	107 mg/kg
	Rat	70.4 mg/kg
Inhalation		
LC50	Mouse	0.013 mg/l, 4 Hours
	Rat	0.015 mg/l, 4 Hours
Oral		
LD50	Dog	100 mg/kg
	Mouse	61 mg/kg
	Rabbit	10 mg/kg
	Rat	17 mg/kg
Other	· tat	
LD50	Mouse	18 mg/kg
Dimethoate (CAS 60-51-5)		.55
Acute		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Guinea pig	350 - 400 mg/kg
	Mouse	60 mg/kg
	Rabbit	300 mg/kg
	Rat	240 - 336 mg/kg
Other	Nat	240 000 mg/kg
LD50	Guinea pig	> 1000 mg/kg
LDOU	Hamster	60 mg/kg
	Mouse	60 mg/kg
	Rat	> 800 mg/kg
EPN (CAS 2104-64-5)		
Acute		
<i>Dermal</i> LD50	Cat	45 ma/ka
LDOU		45 mg/kg
	Mouse	348 mg/kg
	Rabbit	30 mg/kg
	Rat	25 mg/kg
Inhalation		
LC50	Rat	0.16 mg/l, 1 Hours

Components	Species	Test Results
<i>Oral</i> LD50	Dog	20 mg/kg
LD30	Guinea pig	79 mg/kg
	Mouse	12.2 mg/kg
	Rat	7 mg/kg
Other	nai	7 Hig/Ng
LD50	Hen	60 mg/kg
2500	Mouse	8.4 mg/kg
	Rat	8 mg/kg
Fenchlorphos (CAS 299-84-3)	Nat	o mg/kg
Acute		
Dermal		
LD50	Rabbit	1000 mg/kg
	Rat	2000 mg/kg
Oral		
LD50	Dog	> 500 mg/kg
	Rat	1250 mg/kg
Fensulfothion (CAS 115-90-2)		
Acute		
Oral L D 50	P. I	4.0
LD50	Rat	1.8 mg/kg
Guthion Ethyl (CAS 2642-71-9)		
Acute Inhalation		
LD50	Rat	0.15 mg/l, 4 Hours
Oral	· Cat	one mgn, rriodic
LD50	Chicken	34 mg/kg
	Guinea pig	17 mg/kg
	Rat	7 mg/kg
Other		3 0
LD50	Guinea pig	8 mg/kg
	Mouse	3.8 mg/kg
	Rat	> 7.5 mg/kg
		500 mg/kg, 24 Hours
Isooctane (CAS 540-84-1)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 33.52 mg/l, 4 Hours
Oral L D.C.	Det	5 5000 mm/l/m
LD50	Rat	> 5000 mg/kg
Malathion (CAS 121-75-5) Acute		
Dermal		
LD50	Mouse	2330 mg/kg
	Rabbit	2460 - 6150 mg/kg
Inhalation		3 3
LC50	Rat	0.0438 mg/l, 4 Hours
Oral		
LD50	Guinea pig	570 mg/kg
	Mouse	190 mg/kg

Components	Species	Test Results
	Rabbit	250 mg/kg
	Rat	290 mg/kg
Other		
LD50	Mouse	184 mg/kg
	Rat	50 mg/kg
Methyl parathion (CAS 298-00-0)		
Acute		
Dermal		
LD50	Rabbit	300 mg/kg
Oral		
LD50	Guinea pig	417 mg/kg
	Rat	14 mg/kg
Other		
LD50	Guinea pig	50 mg/kg
Parathion (TM) (CAS 56-38-2)	. •	
Acute		
Dermal		
LD50	Mouse	19 mg/kg
	Rat	6.8 mg/kg
Inhalation	1101	o.o mg/kg
LC50	Dog	> 0.037 mg/l, 4 Hours
2000	Rat	0.084 mg/l, 4 Hours
Overl	Nai	0.004 mg/l, 4 modis
Oral LD50	Domestic goat	20 E6 malka
LD50	Domestic goat	28 - 56 mg/kg
	Mouse	5 mg/kg
	Rat	2 mg/kg
Other		
LD50	Rat	3.6 mg/kg
Phorate (CAS 298-02-2)		
Acute		
Dermal		
LD50	Guinea pig	20 mg/kg
	Rat	2.5 mg/kg
Oral		
LD50	Mouse	2.25 mg/kg
	Rat	1.1 mg/kg
Other		
LD50	Rabbit	116 mg/kg
	Rat	93 - 245 mg/kg
Prophos (CAS 13194-48-4)		3 3
Acute		
Dermal		
LD50	Rabbit	8.5 mg/kg
	Rat	22.4 mg/kg
Oral	- 100	
LD50	Domestic hen	5.62 mg/kg
2200	Rabbit	55 mg/kg
	Rat	33 mg/kg
Other		"
LD50	Rabbit	26 mg/kg
	Rat	60 mg/kg
	Rat	

Test Results Components **Species** S,S,S-Tributyl phosphorotrithioate (CAS 78-48-8) **Acute** Dermal LD50 Rabbit 97 mg/kg Rat 168 mg/kg Inhalation LC50 Rat 2.46 mg/l, 4 Hours Oral LD50 Guinea pig 260 mg/kg Mouse 77 mg/kg Rat 150 mg/kg Other LD50 Mouse 290 mg/kg Rat 210 mg/kg Sulprofos (CAS 35400-43-2) Acute Dermal LD50 Rabbit 820 mg/kg Inhalation LC50 Rat > 4.1 mg/l, 4 Hours Oral LD50 Hen 65 mg/kg 1600 mg/kg Mouse Rat 176 mg/kg Other LD50 Rat 1064 mg/kg Terbufos (CAS 13071-79-9) Acute Dermal LD50 Rabbit 0.8 - 1.1 mg/kg Oral LD50 Albino mouse 5.4 mg/kg Dog 4.5 mg/kg Mouse 3.5 mg/kg Rat 2 mg/kg Other LD50 Rat 27.5 mg/kg, 24 Hours Tetrachlorvinphos (CAS 22248-79-9) Acute Dermal LD50 Mouse > 7500 mg/kg Rat > 10000 mg/kg Other LD50 Mouse 1170 mg/kg Rat 1160 mg/kg Trichlorphon (CAS 52-68-6) Acute Dermal LD50 Rat 2000 mg/kg Inhalation LC50 Rat 0.533 mg/l, 4 Hours Oral LD50 Calf 600 mg/kg

Components	Species	Test Results
	Chicken	125 mg/kg
	Mouse	300 mg/kg
	Rat	250 mg/kg
Other		
LD50	Mouse	290 mg/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

ACGIH sensitization

Azinphos-methyl (CAS 86-50-0) Sensitizer.

Dichlorvos (CAS 62-73-7) Sensitizer.

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo 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 Carcinogenicity

Dichlorvos (CAS 62-73-7) 2B Possibly carcinogenic to humans.

Malathion (CAS 121-75-5)

Methyl parathion (CAS 298-00-0)

Parathion (TM) (CAS 56-38-2)

Tetrachlorvinphos (CAS 22248-79-9)

Trichlorphon (CAS 52-68-6)

3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results	
Azinphos-methyl (CAS	8 86-50-0)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	0.0012 - 0.002 mg/l, 48 hours	
Fish	LC50	Topsmelt (Atherinops affinis)	0.0027 - 0.0042 mg/l, 96 hours	
Coumaphos (CAS 56-	72-4)			
Aquatic				
Crustacea	EC50	Water flea (Simocephalus serrulatus)	0.0001 mg/l, 48 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	0.34 mg/l, 96 hours	
Diazinon (CAS 333-41	-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	0.0007 - 0.0012 mg/l, 48 hours	
Fish	LC50	Common eel (Anguilla anguilla)	0.066 - 0.102 mg/l, 96 hours	
			0.066 - 0.102 mg/l, 96 hours	
Dichlorvos (CAS 62-73	3-7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	0 - 0.0001 mg/l, 48 hours	

Components		Species	Test Results
Fish	LC50	Cutthroat trout (Oncorhynchus clarki)	0.141 - 0.321 mg/l, 96 hours
Dimethoate (CAS 60-51-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.48 - 0.66 mg/l, 48 hours
Fish	LC50	Brown trout (Salmo trutta)	0.13 mg/l, 96 hours
EPN (CAS 2104-64-5)			
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	0.025 - 0.15 mg/l, 96 hours
Fenchlorphos (CAS 299-8	34-3)		
Aquatic			
Crustacea	EC50	Brown shrimp (Penaeus aztecus)	0.0052 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.305 mg/l, 96 hours
Fensulfothion (CAS 115-9	0-2)		
Aquatic		5.	
Fish	LC50	Bluegill (Lepomis macrochirus)	0.009 - 0.1 mg/l, 96 hours
Guthion Ethyl (CAS 2642-	71-9)		
Aquatic	5050	M. L. G. (Dark in L.)	0.0040 0.0050 // 40.1
Crustacea	EC50	Water flea (Daphnia pulex)	0.0018 - 0.0058 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.0009 - 0.0012 mg/l, 96 hours
Malathion (CAS 121-75-5))		
Aquatic	E050	Matangles (Deplace assess)	0.0007 . 0.0044
Crustacea	EC50	Water flea (Daphnia magna)	0.0007 - 0.0014 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.04 - 0.052 mg/l, 96 hours
Methyl parathion (CAS 29	8-00-0)		
Aquatic	EC50	Mater flee (Denhais magne)	0.0004 0.0002 mg/l 48 bours
Crustacea		Water flea (Daphnia magna)	0.0001 - 0.0002 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1.6 mg/l, 96 hours
Parathion (TM) (CAS 56-3	38-2)		
Aquatic Crustacea	EC50	Water flea (Daphnia pulex)	0.0004 - 0.0008 mg/l, 48 hours
Fish	LC50	Guppy (Poecilia reticulata)	0.056 mg/l, 96 hours
Phorate (CAS 298-02-2)			
Aquatic Crustacea	EC50	Water flea (Daphnia magna)	0.012 - 0.031 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.002 - 0.0026 mg/l, 96 hours
-		Bidegiii (Leporiis macrociii ds)	0.002 - 0.0020 mg/i, 90 mours
Prophos (CAS 13194-48-4 Aquatic	+)		
Fish	LC50	Carp (Cyprinus carpio)	0.47 - 0.88 mg/l, 96 hours
S,S,S-Tributyl phosphorot			5.11 5.55 mg/l, 55 maile
Aquatic	Intilioate (OAO 1	0-40-0)	
Crustacea	EC50	Water flea (Daphnia magna)	0.0037 - 0.013 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout	0.24 - 0.4 mg/l, 96 hours
1 1011	2000	(Oncorhynchus mykiss)	0.21 0.1 mg/l, 00 modio
Terbufos (CAS 13071-79-	9)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0003 - 0.0005 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.0011 - 0.0022 mg/l, 96 hours
Tetrachlorvinphos (CAS 2	2248-79-9)		
Aquatic			
Crustacea	EC50	Northern pink shrimp (Penaeus duorarum)	0.28 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout	0.332 - 0.557 mg/l, 96 hours

Components Species Test Results

Trichlorphon (CAS 52-68-6)

Aquatic

Azinphos-methyl

Crustacea EC50 Water flea (Daphnia magna) 0.0001 - 0.0001 mg/l, 48 hours
Fish LC50 Cutthroat trout (Oncorhynchus clarki) 0.31 - 0.454 mg/l, 96 hours

2 75

0.31 - 0.454 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition	coefficient n-octanol /	water	(log	Kow)
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Azinphos-methyl	2.13
Coumaphos	4.13
Diazinon	3.81
Dichlorvos	1.43
EPN	4.78
Fenchlorphos	5.07
Fensulfothion	2.23
Guthion Ethyl	3.4
Isooctane	5.18
Malathion	2.36
Methyl parathion	2.86
Parathion (TM)	3.83
Phorate	3.56
Prophos	3.59
S,S,S-Tributyl phosphorotrithioate	5.7
Sulprofos	5.48
Terbufos	4.48
Tetrachlorvinphos	3.53
Trichlorphon	0.51

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into

and its container must be disposed of as hazardous waste. 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 Waste P List: Reference

 Dimethoate (CAS 60-51-5)
 P044

 Methyl parathion (CAS 298-00-0)
 P071

 Parathion (TM) (CAS 56-38-2)
 P089

 Phorate (CAS 298-02-2)
 P094

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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN1262

UN proper shipping name Octanes, solution, MARINE POLLUTANT

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II

^{*} Estimates for product may be based on additional component data not shown.

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 150 202 Packaging non bulk Packaging bulk 242

IATA

UN1262 **UN** number

UN proper shipping name Octanes solution

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

IMDG

UN1262 **UN** number

UN proper shipping name OCTANES SOLUTION, MARINE POLLUTANT

Not available.

Transport hazard class(es)

Class 3 Subsidiary risk Ш **Packing group**

Environmental hazards

Marine pollutant Yes **EmS** F-E, S-E

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

the IBC Code

DOT



IATA; IMDG



Material name: Organophosphorous Pesticide Mixture #1 - 1618

Marine pollutant



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) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Azinphos-methyl (CAS 86-50-0)	Listed.
Coumaphos (CAS 56-72-4)	Listed.
Diazinon (CAS 333-41-5)	Listed.
Dichlorvos (CAS 62-73-7)	Listed.
Dimethoate (CAS 60-51-5)	Listed.
Isooctane (CAS 540-84-1)	Listed.
Malathion (CAS 121-75-5)	Listed.
Methyl parathion (CAS 298-00-0)	Listed.
Parathion (TM) (CAS 56-38-2)	Listed.
Phorate (CAS 298-02-2)	Listed.
Trichlorphon (CAS 52-68-6)	Listed.

SARA 304 Emergency release notification

Azinphos-methyl (CAS 86-50-0)	1 LBS
Coumaphos (CAS 56-72-4)	10 LBS
Dichlorvos (CAS 62-73-7)	10 LBS
Dimethoate (CAS 60-51-5)	10 LBS
EPN (CAS 2104-64-5)	100 LBS
Fensulfothion (CAS 115-90-2)	500 LBS
Guthion Ethyl (CAS 2642-71-9)	100 LBS
Methyl parathion (CAS 298-00-0)	100 LBS
Parathion (TM) (CAS 56-38-2)	10 LBS
Phorate (CAS 298-02-2)	10 LBS
Prophos (CAS 13194-48-4)	1000 LBS
Terbufos (CAS 13071-79-9)	100 LBS
OCUA Considerable Descripted Cubetoness (20 CED)	1040 4004 405

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 - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Fensulfothion	115-90-2	500	500 lbs		
Azinphos-methyl	86-50-0	1		10 lbs	10000 lbs
Dimethoate	60-51-5	10		500 lbs	10000 lbs
EPN	2104-64-5	100		100 lbs	10000 lbs
Guthion Ethyl	2642-71-9	100		100 lbs	10000 lbs
Methyl parathion	298-00-0	100		100 lbs	10000 lbs
Parathion (TM)	56-38-2	10	100 lbs		
Phorate	298-02-2	10	10 lbs		
Prophos	13194-48-4	1000	1000 lbs		
Terbufos	13071-79-9	100	100 lbs		
Coumaphos	56-72-4	10		100 lbs	10000 lbs
Dichlorvos	62-73-7	10	1000 lbs		

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Dichlorvos (CAS 62-73-7)

Isooctane (CAS 540-84-1)

Parathion (TM) (CAS 56-38-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Azinphos-methyl (CAS 86-50-0)

Coumaphos (CAS 56-72-4)

Diazinon (CAS 333-41-5)

Dichlorvos (CAS 62-73-7)

Dimethoate (CAS 60-51-5)

EPN (CAS 2104-64-5)

Fenchlorphos (CAS 299-84-3)

Fensulfothion (CAS 115-90-2)

Guthion Ethyl (CAS 2642-71-9)

Isooctane (CAS 540-84-1)

Malathion (CAS 121-75-5)

Methyl parathion (CAS 298-00-0)

Parathion (TM) (CAS 56-38-2)

Phorate (CAS 298-02-2)

Prophos (CAS 13194-48-4)

Sulprofos (CAS 35400-43-2)

Terbufos (CAS 13071-79-9)

Tetrachlorvinphos (CAS 22248-79-9)

Trichlorphon (CAS 52-68-6)

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

, , ,	
Azinphos-methyl (CAS 86-50-0)	10 LBS
Coumaphos (CAS 56-72-4)	100 LBS
Diazinon (CAS 333-41-5)	500 LBS
Dichlorvos (CAS 62-73-7)	500 LBS
Dimethoate (CAS 60-51-5)	500 LBS
EPN (CAS 2104-64-5)	100 LBS
Fensulfothion (CAS 115-90-2)	500 LBS
Guthion Ethyl (CAS 2642-71-9)	100 LBS
Malathion (CAS 121-75-5)	500 LBS
Methyl parathion (CAS 298-00-0)	100 LBS
Parathion (TM) (CAS 56-38-2)	100 LBS
Phorate (CAS 298-02-2)	10 LBS
Prophos (CAS 13194-48-4)	500 LBS
S,S,S-Tributyl phosphorotrithioate (CAS 78-48-8)	500 LBS
Sulprofos (CAS 35400-43-2)	500 LBS
Terbufos (CAS 13071-79-9)	100 LBS
Tetrachlorvinphos (CAS 22248-79-9)	500 LBS
Trichlorphon (CAS 52-68-6)	500 LBS

US. Pennsylvania RTK - Hazardous Substances

Azinphos-methyl (CAS 86-50-0)

Coumaphos (CAS 56-72-4)

Diazinon (CAS 333-41-5)

Dichlorvos (CAS 62-73-7)

Dimethoate (CAS 60-51-5)

EPN (CAS 2104-64-5)

Fenchlorphos (CAS 299-84-3)

Fensulfothion (CAS 115-90-2)

Guthion Ethyl (CAS 2642-71-9)

Malathion (CAS 121-75-5)

Methyl parathion (CAS 298-00-0)

Parathion (TM) (CAS 56-38-2)

Phorate (CAS 298-02-2) Prophos (CAS 13194-48-4) Sulprofos (CAS 35400-43-2) Terbufos (CAS 13071-79-9)

Tetrachlorvinphos (CAS 22248-79-9)

Trichlorphon (CAS 52-68-6)

US. Rhode Island RTK

Azinphos-methyl (CAS 86-50-0) Coumaphos (CAS 56-72-4) Diazinon (CAS 333-41-5) Dichlorvos (CAS 62-73-7) Dimethoate (CAS 60-51-5) EPN (CAS 2104-64-5) Fensulfothion (CAS 115-90-2)

Guthion Ethyl (CAS 115-90-2)
Isooctane (CAS 540-84-1)
Malathion (CAS 121-75-5)
Mothyl parathion (CAS 208 00 0

Methyl parathion (CAS 298-00-0) Parathion (TM) (CAS 56-38-2) Phorate (CAS 298-02-2) Prophos (CAS 13194-48-4)

S,S,S-Tributyl phosphorotrithioate (CAS 78-48-8)

Sulprofos (CAS 35400-43-2) Terbufos (CAS 13071-79-9)

Tetrachlorvinphos (CAS 22248-79-9)

Trichlorphon (CAS 52-68-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Dichlorvos (CAS 62-73-7)

Prophos (CAS 13194-48-4)

S,S,S-Tributyl phosphorotrithioate (CAS 78-48-8)

Listed: January 1, 1989

Listed: February 27, 2001

Listed: February 25, 2011

International Inventories

Country(s) or region

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 10-17-2014

Version # 01

NFPA ratings Health: 2

Flammability: 3 Instability: 0

Material name: Organophosphorous Pesticide Mixture #1 - 1618

SDS US 18 / 19

On inventory (yes/no)*

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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