# SAFETY DATA SHEET

### 1. Identification

Product identifier	Naftalofos		
Other means of identification			
Item	N-14402		
CAS number	1491-41-4		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States		
Telephone	Toll Free	800-452-9994	
	Direct	610-692-3026	
Website E-mail	www.chemservice.com		
E-mail Emergency phone number	info@chemservice.com Chemtrec US	800-424-9300	
Emergency phone number	Chemtrec outside US	+1 703-527-3887	7
2 Upperd(a) identification			
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 3
	Acute toxicity, dermal		Category 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		

Signal word	Danger	
Hazard statement	Toxic if swallowed. Fatal in contact with skin.	
Precautionary statement		
Prevention	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing.	
Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of water. Immediately call a poison center/doctor. Take off immediately all contaminated clothing and wash it before reuse.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment.	

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Naftalofos		1491-41-4	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Take off immediately all contaminated clothing poison control center immediately. Wash cont		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Call		
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting withou advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea under observation. Symptoms may be delayed		warm. Keep victim
General information	Take off immediately all contaminated clothing material(s) involved, and take precautions to p the doctor in attendance. Discard any shoes of	protect themselves. Show this s	afety data sheet to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	on dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	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		in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peo appropriate protective equipment and clothing or spilled material unless wearing appropriate Local authorities should be advised if significa protection, see section 8 of the SDS.	during clean-up. Do not touch protective clothing. Ensure ade	damaged containers quate ventilation.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is with water.	s without risk. Following product	recovery, flush area
	Small Spills: Clean surface thoroughly to remo	ove residual contamination.	
	Never return spills to original containers for re	-use. For waste disposal, see s	ection 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses or		
7. Handling and storage			
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drin or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.		e equipment. Wash Dbserve good
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed contair Section 10 of the SDS).	ner. Store away from incompatil	ole materials (see
8. Exposure controls/pers	onal protection		

#### 8. Exposure controls/personal protection

Occupational exposure limits This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	Good general ventilation 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.	
Individual protection measure	s, such as personal protective equipment	
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.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

## 9. Physical and chemical properties

Appearance		
Physical state	Solid.	
Form	Solid.	
Color	Off White to Light Yellow	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	losive limits	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	< 0.0000001 kPa (77 °F (25 °C))	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Explosive properties	Not explosive.	
Molecular weight	349.28 g/mol	
Oxidizing properties	Not oxidizing.	
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	No dangerous reaction known under conditions of normal use.	

Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

11. Toxicological information				
Information on likely routes of exposure				
Inhalation	No adverse effects due to inhalation are expected.			
Skin contact	Fatal in contact with skin.			
Eye contact	Direct contact with eyes may cause temporary irritation.			
Ingestion	Toxic if swallowed.			
70 mg/kg LD50 Species: Rat				
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.			
Information on toxicological effe	ects			
Acute toxicity	Fatal in contact with skin. Toxic if swallowed.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization	I			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Not classifiable as to carcinogenicity to humans.			
<ul> <li>IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.</li> <li>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.</li> <li>US. National Toxicology Program (NTP) Report on Carcinogens Not listed.</li> </ul>				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not an aspiration hazard.			
12. Ecological information				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Persistence and degradability	No data is available on the degradability of this substance.			
Bioaccumulative potential	No data available.			
Mobility in soil	Iobility in soil         No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal considerations				
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in accordance with all applicable regulations.			
	The wests and should be assigned in discussion between the user, the producer and the wests			

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

DOT	
UN number	UN3464
UN proper shipping name	Organophosphorus compound, toxic, solid, n.o.s.
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Label(s)	6.1
Packing group	1
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB7, IP1, T6, TP33
Packaging exceptions	None
Packaging non bulk	211
Packaging bulk	242
ΙΑΤΑ	
UN number	UN3464
UN proper shipping name	Organophosphorus compound, solid, toxic, n.o.s.
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	I
Environmental hazards	No.
ERG Code	6L
· ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3464
UN proper shipping name	ORGANOPHOSPHORUS COMPOUND, SOLID, TOXIC, N.O.S.
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	1
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-A
· ·	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	
тохіс	

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### 15. Regulatory information

15. Regulatory informati	on		
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
Toxic Substances Control	Act (TSCA)	This substance is not on the TSCA 8(b) inven "inactive".	tory or is designated
TSCA Section 12(b) E	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		
Not regulated.			
CERCLA Hazardous Substance List (40 CFR 302.4)			
Not listed. SARA 304 Emergency rele	ease notification		
Not regulated.	SARA 304 Emergency release notification Not regulated.		
OSHA Specifically Regula Not listed.	ted Substances (29	9 CFR 1910.1001-1053)	
Superfund Amendments and I	Reauthorization Ac	ct of 1986 (SARA)	
SARA 302 Extremely haza			
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Acute toxicity (a	any route of exposure)	
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	on 112 Hazardous	Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	on 112(r) Accidenta	al Release Prevention (40 CFR 68.130)	
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
California Proposition 65			
	any chemicals curre	inforcement Act of 1986 (Proposition 65): This materia ently listed as carcinogens or reproductive toxins. For .ca.gov.	ıl
International Inventories			
Country(s) or region	Inventory name	e	On inventory (yes/no)*
Australia	Australian Inver	ntory of Industrial Chemicals (AICIS)	No
Canada	Domestic Subst	tances List (DSL)	No
Canada	Non-Domestic S	Substances List (NDSL)	No
China	Inventory of Exi	sting Chemical Substances in China (IECSC)	No
Europe	European Inven Substances (Ell	ntory of Existing Commercial Chemical NECS)	Yes
Europe	European List o	f Notified Chemical Substances (ELINCS)	No

Inventory of Existing and New Chemical Substances (ENCS)

Japan

No

Country(s) or region	Inventory name On inventory (ye	es/no)*
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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	07-27-2022
Version #	01
NFPA ratings	Health: 4 Flammability: 0 Instability: 0

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