

ACDelco Synchromesh Transmission Fluid Kem Krest, LLC

Catalogue Number: VPC-001B2187 Version No: 2.6

Safety Data Sheet according to WHMIS 2015 requirements

Chemwatch Hazard Alert Code: 0

Issue Date: 01/18/2021 Print Date: 01/18/2021 S.GHS.CAN.EN

SECTION 1 Identification

Product	Identifier
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Product name	ACDelco Synchromesh Transmission Fluid
Chemical Name	Not Applicable
Synonyms	88900333 89021808
Chemical formula	Not Applicable
Other means of identification	VPC-001B2187

Recommended use of the chemical and restrictions on use

Relevant identified uses	Lubricants, greases and form release agents/Lubrifiants, graisses et agents de décoffrage
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Kem Krest, LLC
Address	12785 Emerson Drive, Brighton MI 48116 Michigan United States
Telephone	248-486-3800
Fax	248-486-3810
Website	www.kemkrest.com
Email	sdsrequests@kemkrest.com

Emergency phone number

- J - J - -	
Association / Organisation	CHEMTREC
Emergency telephone numbers	800-424-9300
Other emergency telephone numbers	Not Available

SECTION 2 Hazard(s) identification

Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Canadian WHMIS Symbols

Classification	Not Applicable
Label elements	
Laber elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

Physical and Health hazard(s) not otherwise classified Not Applicable

Precautionary statement(s) Prevention Not Applicable Precautionary statement(s) Response Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
28629-66-5	1-2.49	zinc O.O-bis(isooctyl)dithiophosphate
80-62-6	0.05	methyl methacrylate
108-95-2	0.0099	phenol

SECTION 4 First-aid measures

Description of first aid measures	
Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
 Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes.
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	 Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

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Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Avoid contamination of water, foodstuffs, feed or seed. Sulfides are incompatible with acids, diazo and azo compounds, halocarbons, isocyanates, aldehydes, alkali metals, nitrides, hydrides, and other strong reducing agents. Many reactions of sulfides with these materials generate heat and in many cases hydrogen gas. Many sulfide compounds may liberate hydrogen sulfide upon reaction with an acid. None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	methyl methacrylate	Methyl methacrylate	100 ppm / 410 mg/m3	510 mg/m3 / 125 ppm	Not Available	Not Available
Canada - Nova Scotia Occupational Exposure Limits	methyl methacrylate	Methyl methacrylate	50 ppm	100 ppm	Not Available	TLV Basis: upper respiratory tract irritation; body weight effects; pulmonary edema; eye irritation
Canada - Alberta Occupational Exposure Limits	methyl methacrylate	Methacrylic acid, methyl ester (Methyl methacrylate)	50 ppm / 205 mg/m3	410 mg/m3 / 100 ppm	Not Available	Not Available
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	methyl methacrylate	Methyl methacrylate	50 ppm	100 ppm	Not Available	SEN
Canada - Manitoba Occupational Exposure Limits	methyl methacrylate	Not Available	50 ppm	100 ppm	Not Available	TLV® Basis: URT & eye irr; body weight eff; pulm edema

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Source	Ingredient	Material name		TWA	STEL		Peak	Notes	
Canada - British Columbia Occupational Exposure Limits	methyl methacrylate	Methyl methacrylate		50 ppm	100 ppm		Not Available	Not Availat	ble
Canada - Prince Edward Island Occupational Exposure Limits	methyl methacrylate	Methyl methacrylate		50 ppm	100 ppm		Not Available	TLV® Basis: URT & eye irr; body weight eff; pulm edema	
Canada - Northwest Territories Occupational Exposure Limits	methyl methacrylate	Methyl methacrylate		50 ppm	100 ppm		Not Available	SEN	
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	methyl methacrylate	Methyl methacrylate (monomer)		50 ppm / 205 mg/m3	Not Availa	ble	Not Available	Not Availat	ble
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	phenol	Phenol - Skin		5 ppm / 19 mg/m3	38 mg/m3 10 ppm	/	Not Available	Not Availat	ble
Canada - Nova Scotia Occupational Exposure Limits	phenol	Phenol		5 ppm	Not Availa	ble	Not Available		upper respiratory tract ing damage; central nervous pairment
Canada - Alberta Occupational Exposure Limits	phenol	Phenol		5 ppm / 19 mg/m3	Not Availa	ble	Not Available	Not Availat	ble
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	phenol	Phenol		5 ppm	7.5 ppm		Not Available	Skin	
Canada - Manitoba Occupational Exposure Limits	phenol	Not Available		5 ppm	Not Availa	ble	Not Available	TLV® Basi impair; BE	s: URT irr; lung dam; CNS
Canada - British Columbia Occupational Exposure Limits	phenol	Phenol		5 ppm	Not Availa	ble	Not Available	Not Availat	ble
Canada - Prince Edward Island Occupational Exposure Limits	phenol	Phenol		5 ppm	Not Availa	ble	Not Available	TLV® Basi impair; BE	s: URT irr; lung dam; CNS
Canada - Northwest Territories Occupational Exposure Limits	phenol	Phenol		5 ppm	7.5 ppm		Not Available	Skin	
Canada - Quebec Permissible Exposure Values for Airborne Contaminants	phenol	Phenol		5 ppm / 19 mg/m3	Not Availa	ble	Not Available	Not Availat	ble
Emergency Limits									
Ingredient	Material name		TE	EL-1		TEE	L-2		TEEL-3
methyl methacrylate	Methyl methacry	ate	No	t Available		Not	Available		Not Available
phenol	Phenol		No	t Available		Not	Available		Not Available

Ingredient	Original IDLH	Revised IDLH
zinc O,O-bis(isooctyl)dithiophosphate	Not Available	Not Available
methyl methacrylate	1,000 ppm	Not Available
phenol	250 ppm	Not Available

Exposure controls

	be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps	a selected hazard "physically" away from the worker and venion can remove or dilute an air contaminant if designed proper temical or contaminant in use.	of protection. tilation that strategica
	essential to obtain adequate protection. Provide adequate v	ions. If risk of overexposure exists, wear SAA approved respi entilation in warehouse or closed storage areas. Air contamir n, determine the "capture velocities" of fresh circulating air re	nants generated in th
	Type of Contaminant:		Air Speed:
Appropriate engineering controls	solvent, vapours, degreasing etc., evaporating from tank (in still air)		
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		
			f/min.)
		into zone of active generation)	f/min.)
	drift, plating acid fumes, pickling (released at low velocity direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion)	into zone of active generation)	f/min.) 1-2.5 m/s (200-50
	drift, plating acid fumes, pickling (released at low velocity direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge	into zone of active generation) conveyer loading, crusher dusts, gas discharge (active	f/min.) 1-2.5 m/s (200-50 f/min) 2.5-10 m/s
	drift, plating acid fumes, pickling (released at low velocity direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	into zone of active generation) conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-50 f/min) 2.5-10 m/s

2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Personal p	protection
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Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly, Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and durability of glove type is dependent on usage. Important factors in the selection class of 5 or higher (breakthrough time greater than 40 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When prolonged of requently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
Pody protoction	
Body protection	See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Overalls. Barrier cream. Eyewash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

ACDelco Synchromesh Transmission Fluid

Material	CPI
PE/EVAL/PE	A
TEFLON	A

C
С
С
С
С
С
С
С
С
С
С
С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
	1		
Physical state	Liquid	Relative density (Water = 1)	0.897
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	40
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	350	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<0.5	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.

	Although the liquid is not thought to be an irritant (as classifie characterised by tearing or conjunctival redness (as with win-	ed by EC Directives), direct contact with the eye may produce transient discomfort dburn).		
Chronic		ng-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal dels); nevertheless exposure by all routes should be minimised as a matter of course.		
ACDelco Synchromesh	ΤΟΧΙΟΙΤΥ	IRRITATION		
Transmission Fluid	Not Available	Not Available		
	τοχιςιτγ	IRRITATION		
zinc D,O-bis(isooctyl)dithiophosphate	Dermal (rabbit) LD50: >3000 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]		
	Oral(Rat) LD50; 2000-5000 mg/kg ^[2]	Skin: adverse effect observed (irritating) ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: >0.005 mg/kg ^[2]	Eye (rabbit): 150 mg		
methyl methacrylate	Inhalation(Rat) LC50; 78 mg/L4hrs ^[2]	Skin (rabbit): 10000 mg/kg (open)		
	Oral(Mouse) LD50; 3625 mg/kg ^[2]			
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	dermal (rat) LD50: 0.663 mg/kg ^[1]	Eye(rabbit): 100 mg rinse - mild		
phenol	Inhalation(Mouse) LC50; 0.177 mg/L4hrs ^[2]	Eye(rabbit): 5 mg - SEVERE		
	Oral(Mouse) LD50; 270 mg/kg ^[2]	Skin(rabbit): 500 mg open -SEVERE		
		Skin(rabbit): 500 mg/24hr - SEVERE		
Legend:	 Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effe 	s - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise act of chemical Substances		
METHYL METHACRY	 Contact allergies quickly manifest themselves as a contact eczema involves a cell-mediated (T lymph contact urticaria, involve antibody-mediated immur sensitisation potential: the distribution of the subst sensitising substance which is widely distributed ca which few individuals come into contact. From a cli reaction in more than 1% of the persons tested. MMA is absorbed after inhalation, oral intake and I where it is metabolised by local enzymes. Acute to smell function of the nose. Long term exposure mutations, especially at high doses. There is no re Where no "official" classification for acrylates and I the absence of contrary evidence. For example Monalkyl or monoary lesters of methacrylic acids should Monoalkyl or monoary lesters of methacrylic acids and with Environmental Review Division (HERD), Office of contain the acrylate or methacrylate moiety (CH2= unless shown otherwise by adequate testing. 			
Inhalation (human) TCLo: 60 mg/m The material may cause severe ski		anuf. Rohm & Haas] prolonged or repeated exposure and may produce on contact skin redness,		
Swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe CINC O,O-BIS(ISOOCTYL)DITHIOPHOSPHATE & PHENOL				
METHYL METHACRYLATE & PH	Asthma-like symptoms may continue for months o condition known as reactive airways dysfunction sy compound. Main criteria for diagnosing RADS inclu- onset of persistent asthma-like symptoms within m of RADS include a reversible airflow pattern on lun challenge testing, and the lack of minimal lymphoc inhalation is an infrequent disorder with rates relat- the other hand, industrial bronchitis is a disorder th	r even years after exposure to the material ends. This may be due to a non-allergi yndrome (RADS) which can occur after exposure to high levels of highly irritating ude the absence of previous airways disease in a non-atopic individual, with sudd intutes to hours of a documented exposure to the irritant. Other criteria for diagnos ing function tests, moderate to severe bronchial hyperreactivity on methacholine cytic inflammation, without eosinophilia. RADS (or asthma) following an irritating ed to the concentration of and duration of exposure to the irritating substance. On hat occurs as a result of exposure due to high concentrations of irritating substance exposure ceases. The disorder is characterized by difficulty breathing, cough and		

The substance is classified by IARC as Group 3: **NOT** classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×

Data available to make classification

Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data either n	ot available or does not fill the criteria for classification

SECTION 12 Ecological information

Toxicity	
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	Endpoint	Test Duration (hr)		Species		Value	Source
ACDelco Synchromesh Transmission Fluid	Not Available	Not Available		Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		3.8mg/L	2
zinc),O-bis(isooctyl)dithiophosphate	EC50	48		Crustacea		=11.5mg/L	1
,o-bis(isoocry)/utiliophospilate	EC50	72		Algae or other aquatic plants		240mg/L	2
	NOEC	504		Crustacea		0.4mg/L	2
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		>79mg/L	2
methyl methacrylate	EC50	48		Crustacea		69mg/L	2
	EC50	72		Algae or other aquatic plants		>110mg/L	2
	NOEC	504		Crustacea		37mg/L	2
	Endpoint	Test Duration (hr)	Spe	ecies	Value		Source
	LC50	96	Fis	h	0.0017	5-mg/L	4
	EC50	48	Cru	istacea	3.1mg/	L	2
phenol	EC50	96	Alg	ae or other aquatic plants	-0.0188	3-0.1044mg/L	4
	BCF	88	Not	Available	63.6mg	ı/L	4
	EC10	504	Cru	istacea	0.05mg	ı/L	2
	NOEC	144	Cru	istacea	0.01-m	g/L	4

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Sulfide ion is very toxic to aquatic life, threshold concentration for fresh or saltwater fish is 0.5ppm. The product therefore is very toxic to aquatic life. The major decomposition product, hydrogen sulfide, is damaging to vegetation at 5ppm for 24 hours

Studies on various thiophosphates indicated complete mineralization within three weeks by acclimation. A water stability study demonstrated the nature of hydrolysis involves the attack of water molecule on the phosphorus ester involving P-O bond fission.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
methyl methacrylate	LOW	LOW
phenol	LOW (Half-life = 10 days)	LOW (Half-life = 0.95 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
zinc O,O-bis(isooctyl)dithiophosphate	LOW (BCF = 100)
methyl methacrylate	LOW (BCF = 6.6)
phenol	LOW (BCF = 17.5)

Mobility in soil

Ingredient	Mobility
methyl methacrylate	LOW (KOC = 10.14)
phenol	LOW (KOC = 268)

SECTION 13 Disposal considerations

Waste treatment methods	3
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	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their
Product / Packaging disposal	area. In some areas, certain wastes must be tracked.
	A Higrarchy of Controls seems to be common - the user should investigate:

A Hierarchy of Controls seems to be common - the user should investigate:

▶ Reduction
▶ Reuse
▶ Recycling
 Disposal (if all else fails)
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been
contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be
applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be
appropriate.
 DO NOT allow wash water from cleaning or process equipment to enter drains.
It may be necessary to collect all wash water for treatment before disposal.
In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
Recycle wherever possible or consult manufacturer for recycling options.
 Consult State Land Waste Management Authority for disposal.
Bury residue in an authorised landfill.
Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required	
Marine Pollutant	NO

Land transport (TDG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
zinc O,O-bis(isooctyl)dithiophosphate	Not Available
methyl methacrylate	Not Available
phenol	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
zinc O,O-bis(isooctyl)dithiophosphate	Not Available
methyl methacrylate	Not Available
phenol	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

zinc 0,0-bis(isooctyl)dithiophosphate is found on the following regulatory lists

- Canada Categorization decisions for all DSL substances
- Canada Domestic Substances List (DSL)

methyl methacrylate is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

- Canada Domestic Substances List (DSL)
- Canada Toxicological Index Service Workplace Hazardous Materials Information System WHMIS GHS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

phenol is found on the following regulatory lists

Canada Categorization decisions for all DSL substances

Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (zinc O,O-bis(isooctyl)dithiophosphate; methyl methacrylate; phenol)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	

National Inventory	Status			
Japan - ENCS	Yes			
Korea - KECI	Yes			
New Zealand - NZIoC	Yes			
Philippines - PICCS	Yes			
USA - TSCA	Yes			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (zinc O,O-bis(isooctyl)dithiophosphate)			
Vietnam - NCI	Yes			
Russia - ARIPS	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)			

SECTION 16 Other information

Revision Date	01/18/2021
Initial Date	12/14/2020

SDS Version Summary

Version	Issue Date	Sections Updated
1.6.1.1.1	01/17/2021	Ingredients, Physical Properties, Synonyms

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

- PC-TWA: Permissible Concentration-Time Weighted Average
- PC-STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations
- OSF: Odour Safety Factor
- NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors BEI: Biological Exposure Index

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