CHS

SAFETY DATA SHEET

Section 1. Identification

CHS Inc. Transportation Emergency (CHEMTREC) : 1-800-424-9300

P.O. Box 64089 Technical Information : 1-651-355-8443

Mail station 525
St. Paul, MN 55164-0089
SDS Information : 1-651-355-8445

Product name : Commercial Synthetic Engine Oil (All Grades) SDS no. : 1220-A3A0

Common name: Motor Oil SAE 5W-30, 5W-40, 15W-40Revision date: 01/28/2015Chemical name: Lubricating oil.Chemical formula: Mixture

Chemical family : Hydrocarbon.

Relevant identified uses of the substance or mixture and uses advised against

Lubricant.

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : Causes serious eye irritation.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

Hazardous Material Information System (U.S.A.)

Health: 2 * Flammability: 1 Physical hazards: 0

National Fire Protection Association (U.S.A.)

Health: 2 * Flammability: 1 Instability: 0

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Lubricating oil.

Other means of identification : Motor Oil SAE 5W-30, 5W-40, 15W-40

Ingredient name	%	CAS number
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	1 - 5	113706-15-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15

minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has

stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as

possible.

Skin contact : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the

material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If

irritation persists after washing, get medical attention immediately.

Ingestion : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

 Inhalation
 : No known significant effects or critical hazards.

 Skin contact
 : No known significant effects or critical hazards.

 Ingestion
 : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness. **Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or

water spray (fog) to extinguish fire.

None known.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Toxic fumes gases or vapors may evolve on burning.

Hazardous thermal decomposition products

Special protective actions for fire-fighters

: No specific data.

: When fighting fires wear full turnout gear and self contained breathing apparatus. Water may

cause splattering. Material floats on water.

Special protective equipment for fire-fighters : Not applicable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Spill

Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities

Handling temperatures should not exceed 175°F (80°C). Do not store at temperatures exceeding 113°F (45°C). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and wellventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None

Appropriate engineering controls

: Use only with adequate ventilation.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

Recommended: Splash goggles and a face shield, where splash hazard exists.

Hand protection 4 - 8 hours (breakthrough time): Nitrile gloves. **Body protection** Recommended: Long sleeved coveralls.

Other skin protection

Recommended: Impervious boots.

Respiratory protection : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate

Section 9. Physical and chemical properties

Appearance Relative density : 0.86 to 0.89 Physical state : Liquid. **Evaporation rate** <1 (Ether = 1) Amber. Color Solubility Insoluble in the following materials: cold water and hot water. Odor Mild Solubility in water Insoluble Odor threshold Not available. Partition coefficient: n-Not available. octanol/water Нα Not available. **Auto-ignition** >260°C (>500°F) Not available. Melting point temperature Not available. Decomposition **Boiling** point Not available. temperature **SADT** Not available. Flash point Closed cup: >205°C (>401°F) Not available. Viscosity **Flammability** Not available. Vapor pressure <0.13 kPa (<1 mm Hq) (68°F) Lower and upper : Not available. explosive (flammable) Vapor density Not available limits

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis(sec-Bu and isooctyl) esters, zinc	LD50 Dermal	Rat	>3160 mg/kg	-
salts	LD50 Oral	Rat	2600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc	Skin - Irritant	Rabbit	-	4 hours	-
salts	Eyes - Severe irritant	Rabbit	-	336 hours	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of

exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Phosphorodithioic acid, mixed O,O-bis (sec-Bu and isooctyl) esters, zinc salts		Daphnia	48 hours
, , , ,	LC50 4.5 mg/L	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Phosphorodithioic acid, mixed O,O-bis (sec-Bu and isooctyl) esters, zinc salts		1.5 % - Not readily - 28 days	10 mg/L	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Phosphorodithioic acid, mixed O,O-bis (sec-Bu and isooctyl) esters, zinc salts		-	Not readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Phosphorodithioic acid, mixed O,O-bis (sec-Bu and isooctyl) esters, zinc salts		-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER Not applicable.

DOT proper shipping name

DOT Hazard Class(es) Not applicable.

PG Not applicable. DOT EMER. RESPONSE GUIDE NO. Not applicable

Not applicable.

Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: Diphenylamine

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): At least one component is not listed.

Clean Water Act (CWA) 307: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts;

Benzene

Clean Water Act (CWA) 311: Benzene; Ethylenediamine

Clean Air Act Section 602 Class I Substances : Not listed DEA List I Chemicals (Precursor Chemicals) : Not listed Clean Air Act Section 602 Class II Substances : Not listed DEA List II Chemicals (Essential Chemicals) : Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Ethylenediamine	0 - 0.1	Yes.	10000	1337.1	5000	668.5

SARA 304 RQ : 84780249.6 lbs / 38490233.3 kg [11620621.6 gal / 43988838.1 L]

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	1 - 5	No.	No.	No.	Yes.	No.

SARA 313

: This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Zinc compounds	Mixture	Max. 0.17 as Zinc

Commercial Synthetic Engine Oil (All Grades)

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Distillates (petroleum), hydrotreated light paraffinic

New York None of the components are listed.

The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic; Distillates **New Jersey**

(petroleum), hydrotreated light paraffinic; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters,

The following components are listed: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc Pennsylvania

salts

California Prop. 65 WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth

defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	 Maximum acceptable dosage level
Benzene	Yes.		24 μg/day (ingestion) 49 μg/day (inhalation)

Section 16. Other information

Revision date : 11/12/2004 : 01/28/2015 Supersedes

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Prepared by : KMK Regulatory Services Inc.

Notice to reader
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