

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/28/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Identification

Product form Product name : Mixture

: Lubricant

: Anti-wear Hydraulic ISO 10, ISO 220, ISO 320

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

Use of the substance/mixture

1.3. Details of the supplier of the safety data sheet

SC Fuels 2075 Alum R

2075 Alum Rock Ave. San Jose, California 95116 - United States T 1.888.723.8357 www.scfuels.com

1.4. Emergency telephone number

Emergency number

: 1.866.559.4473

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

0.04 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

0.04 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

0.01 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%)	(CAS No) 64742-65-0	0 - 85	Asp. Tox. 1, H304
Lubricating oils, petroleum, hydrotreated spent	(CAS No) 64742-58-1	0 - 40	Acute Tox. 4 (Inhalation:dust,mist), H332
Phosphorodithioic acid, -alkyl esters, zinc salts	(CAS No) trade secret	< 0.5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures	general
First-aid measures	after inhalation

	Never give anything by mouth to an unconscious person.
า	Remove person to fresh air and keep comfortable for breathing.

- First-aid measures after skin contact
- : Gently wash with plenty of soap and water.

: Do NOT induce vomiting. Get medical advice/attention.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion

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4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation
- : Inhalation of vapours may cause respiratory irritation.: May cause slight irritation.
- Symptoms/injuries after eye contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide. Foam. Dry powder. Water spray.	
Unsuitable extinguishing media : Do not use a heavy water stream.		
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: No particular fire or explosion hazard.	
Reactivity	: No dangerous reactions known.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.	
Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing		

SECTIO	SECTION 6: Accidental release measures		
6.1.	6.1. Personal precautions, protective equipment and emergency procedures		
General measures :		: Avoid all eye and skin contact and do not breathe vapour and mist.	

6.1.1.	For non-emergency personnel	
Protective equipment		: Wear suitable gloves.
Emerg	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protect	tive equipment	: Wear suitable gloves.
Emerg	ency procedures	: Ventilate area. Stop leak if safe to do so.
6.2.	Environmental precautions	
Avoid r	elease to the environment.	
6.3.	Methods and material for containment and cleaning up	
For cor	ntainment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not allow minor leaks or spills to accumulate on walking surfaces.
Method	ds for cleaning up	: Absorb and/or contain spill with inert material, then place in suitable container.
6.4.	Reference to other sections	
• • •		

Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includ	ng any incompatibilities
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong oxidizers.
Heat and ignition sources	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Incompatible materials.
Storage area	: Store in dry, cool, well-ventilated area.

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SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** Lubricating oils, petroleum, hydrotreated spent (64742-58-1) ACGIH ACGIH TWA (mg/m³) 5 mg/m³ Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0) ACGIH TWA (mg/m³) ACGIH 5 OSHA OSHA PEL (TWA) (mg/m³) 5 mg/m³ 8.2. Exposure controls Appropriate engineering controls : Ensure good ventilation of the work station. Personal protective equipment : Avoid all unnecessary exposure

r ersonal protective equipment	. Avoid all difficeessary exposure.
Hand protection	: Use rubber gloves. nitrile rubber gloves.
Eye protection	: In case of splashing or aerosol production: protective goggles.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. NIOSH. Approved respirator.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: amber		
Odour	: odourless		
Odour threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: > 315.56 °C		
Flash point	: 212.78 - 257.22 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Relative evaporation rate (ether=1)	: >1		
Flammability (solid, gas)	: No data available		
Explosive limits	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Vapour pressure	: No data available		
Relative density	: 0.87 - 0.9		
Relative vapour density at 20 °C	: No data available		
Density	: 7.2 - 7.4 lb/gal		
Solubility	: insoluble in water.		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: 10 - 320 cSt @ 40 °C		
Viscosity, dynamic	: No data available		
9.2. Other information			
VOC content	: 0%		

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified
Lubricating oils, petroleum, hydrotreated sp	ent (64742-58-1)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 4480 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l
ATE US (dust,mist)	2.180 mg/l/4h
Distillates (petroleum), solvent-dewaxed her	avy paraffinic (DMSO < 3%) (64742-65-0)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.

SECTION 12: Ecological information

12.1. Toxicity			
Lubricating oils, petroleum, hydrotre	ated spent (64742-58-1)		
LC50 fish 1	3.2 - 79.6 mg/l		
Phosphorodithioic acid, -alkyl esters	, zinc salts (trade secret)		
LC50 fish 1	10 (10 - 35) mg/l Pimephales	promelas	
EC50 Daphnia 1 1 (1 - 1.5) mg/l			
NOEC (acute) 10 mg/l Pimephales promelas			
NOEC (chronic) < 1 mg/l crustacea			
12.2. Persistence and degradabilit	y		
Distillates (petroleum), solvent-dewa	xed heavy paraffinic (DMSO < 3%) (64	/42-65-0)	
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
Distillates (petroleum), solvent-dewa	xed heavy paraffinic (DMSO < 3%) (64	/42-65-0)	
Bioaccumulative potential	Not established.		
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations Waste disposal recommendations : Do not dispose of waste into sewer.

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not considered a dangerous good for transport regulations

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

 Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

 Listed on the United States TSCA (Toxic Substances Control Act) inventory

 Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)</td>

 Listed on the United States TSCA (Toxic Substances Control Act) inventory

 Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)

 Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

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National regulations		
Lubricating oils, petroleum, hydrotreated spent (64742-58-1)		
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)		
Listed on KECI (Korean Existing Chemicals Inventory)		
Listed on Taiwan National Chemical Inventory		
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)		
Listed on the AICS (Australian Inventory of Chemical Substances)		
Listed on NZIoC (New Zealand Inventory of Chemicals)		
Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)		
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)		
Listed on KECI (Korean Existing Chemicals Inventory)		
Listed on Taiwan National Chemical Inventory		
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)		
Listed on the AICS (Australian Inventory of Chemical Substances)		
Listed on NZIoC (New Zealand Inventory of Chemicals)		
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory		

15.3. US State regulations

No additional information available

SECTION 16: Other information			
Indication of changes	: Original Document.		
Data sources	: ACGIH (American Conference of Government Industrial Hygienists).		
	European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <u>http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</u> .		
	European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/.		
	Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.		
	National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.		
	NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978.		
	OSHA 29CFR 1910.1200 Hazard Communication Standard.		
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.		
Abbreviations and acronyms	: ACGIH (American Conference of Government Industrial Hygienists).		
	ATE: Acute Toxicity Estimate.		
	CAS (Chemical Abstracts Service) number.		
	CFR: Code of Federal Regulations.		
	EC50: Environmental Concentration associated with a response by 50% of the test population.		
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).		
	LD50: Lethal Dose for 50% of the test population.		
	OSHA: Occupational Safety & Health Administration.		
	STEL: Short Term Exposure Limits.		
	TSCA: Toxic Substances Control Act.		
	TWA: Time Weighted Average.		
Other information	: None.		

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Ill text of H-statements:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

NFPA fire hazard

NFPA reactivity

injury even if no treatment is given.
1 - Must be preheated before ignition can occur.
0 - Normally stable, even under fire exposure conditions, and not reactive with water.

: 1 - Exposure could cause irritation but only minor residual



Redstone SDS US GHS for SC Fuels

SDS Prepared by:	The Redstone Group, LLC.
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product