

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product

Product Name                      SPEC OIL COMPRESSOR OIL 68

Product Use                        Compressor Oil

### 2. Composition / Information On Ingredients

| Chemical Name | Cas- no. | Weight % | Symbol Codes | R-Phrase Numbers |
|---------------|----------|----------|--------------|------------------|
|---------------|----------|----------|--------------|------------------|

See Section 15 for European Label Information

See Section 8 for Exposure Limits (if applicable)

### 3. Hazards Identification

Emergency response data:

Light Amber Liquid. DOT ERG No.- Not applicable

Potential health effects

Note

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin and respiratory irritation.

See Section 11 for further health effects / toxicological data

## 4. First Aid Measures

|              |                                                                                                                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Not expected to be a problem. However, if respiratory irritation occurs due to excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation. |
| Skin contact | Remove contaminated clothing. Dry wipe and cleanse with hand cleaner, soap and water. Launder contaminated clothing before re-use. (See Section 16 – Injection Injury)                                                                                        |
| Eye Contact  | Flush thoroughly with water. If irritation occurs call a doctor.                                                                                                                                                                                              |
| Ingestion    | Not expected to be a problem. However, if discomfort occurs seek medical attention. Do not induce vomiting.                                                                                                                                                   |

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## 5. Fire-Fighting Measures

|                                                |                                                                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Extinguishing media                            | Carbon dioxide, foam, dry chemicals and water fog.                                                                                                                                                                                                            |
| Special fire fighting procedure                | Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply. |
| Special protective equipment for fire fighters | For fires in closed areas, fire fighters must use Self-Contained Breathing Apparatus.                                                                                                                                                                         |
| Unusual fire/explosion hazards                 | None                                                                                                                                                                                                                                                          |
| Products of decomposition                      | Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.                                                                                                                              |
| Flash Point                                    | >215 °C (ASTM D-92)                                                                                                                                                                                                                                           |
| Upper Explosion Limits                         | 7.0 % (V)                                                                                                                                                                                                                                                     |
| Lower Explosion Limits                         | 0.9 % (V)                                                                                                                                                                                                                                                     |
| NFPA Hazard ID                                 | Health: 0; Flammability: 1; Reactivity: 0                                                                                                                                                                                                                     |

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## 6. Accidental Release Measures

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Procedure if material is released or spilled | Report spills / release as required to appropriate authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Methods for cleaning up                      | <p>LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on the ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.</p> <p>WATER SPILL: Notify port and relevant authorities. Confine with booms in skimming equipment is available to recover the spill for a later recycling or disposal. Warn other ships in the vicinity. If allowed by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.</p> |
| Personal precautions                         | See Section 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Environmental precautions                    | Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the relevant authorities if contaminations have occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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## 7. Handling And Storage

|                                 |                                                                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling advice            | No special precautions are necessary beyond normal good hygiene practices.                                                                                                           |
| Storage information             | Keep containers closed when not in use. Do not store in open or unlabelled containers. Do not store near sources, sparks, flames, strong oxidizing agents and combustible materials. |
| Storage and handling procedures | Prevent small spills and leakages to avoid slip hazard.                                                                                                                              |

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## 8. Exposure Controls / Personal Protection

### Occupational Exposure Limits (OELs)

| Components | Cas- no. | Source | TWA | Value | Notations |
|------------|----------|--------|-----|-------|-----------|
|------------|----------|--------|-----|-------|-----------|

|      |                                                                        |  |  |  |  |
|------|------------------------------------------------------------------------|--|--|--|--|
| LTEL | Long Term Exposures Limits- Time Weight Average (TWA) over 8 hours.    |  |  |  |  |
| STEL | Short Term Exposure Limits- Time Weight Average (TWA) over 15 minutes. |  |  |  |  |
| Note | Limits Show for guidance only. Follow applicable regulations.          |  |  |  |  |

### Personal Protection Equipment (PPE)

|                          |                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering controls     | If mists are generated, use ventilation, local exhaust or enclosures to control below exposure limits.                                                                                                 |
| Respiratory protection   | Approved respiratory equipment must be used when mist concentrations exceed the recommended exposure limits.                                                                                           |
| Eye protection           | If splash with liquid is possible, chemical type goggles should be worn.                                                                                                                               |
| Skin and body protection | No special equipment required. However, if frequent slashing or liquid contact is likely to occur, wear oil impervious gloves and clothing. Good personal hygiene practices should always be followed. |

## 9. Physical And Chemical Properties

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| Appearance            | Liquid                                                                               |
| Colour                | Light Amber                                                                          |
| Odour                 | Mild                                                                                 |
| Solubility            | Negligible                                                                           |
| Boiling point / range | 316 °C                                                                               |
| Flash Point           | >215 °C (ASTM D92)                                                                   |
| Vapour Pressure       | <0.1 hPa                                                                             |
| Viscosity, kinematic  | 8mm <sup>2</sup> /s @ 100 °C (ASTM D445)<br>68mm <sup>2</sup> /s @ 40 °C (ASTM D445) |

## 10. Stability And Reactivity

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Stability                        | Stable                                                                                                                           |
| Condition to avoid               | Extreme heat and high energy sources of ignition, such as sparks and static electricity.                                         |
| Materials to avoid               | Strong oxidizers                                                                                                                 |
| Hazardous decomposition products | Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other decomposition products, in the case of incomplete combustion. |

## 11. Toxicological Information

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | (Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg). Based on testing of similar products and / or components.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Acute inhalation toxicity | (Rats): Practically non-toxic (LC50: Greater than 5 mg/l). Based on testing of similar products and / or components.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Acute dermal toxicity     | (Rabbits): Practically non-toxic (LC50: greater than 2000mg/l). Based on testing of similar products and / or components.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin irritation           | (Rabbits): Practically non-irritating. (Primary Irritation Index LC50: greater than 0.5 but less than 3). Based on testing of similar products and / or the components.                                                                                                                                                                                                                                                                                                                                                                                      |
| Eye irritation            | (Rabbits): Practically non-irritating. (Draize score: greater than 6 but 15 or less). Based on testing of similar products and / or the components.                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other acute toxicity data | Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects. Over exposure to oil mist may result in oil droplet deposition and / or granuloma formation. |
| Sensitization             | Not expected to be sensitizing based on tests of this product, components, or similar products.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Repeated dose toxicity    | No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (haematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.). Repeated and / or prolonged exposure may cause irritation to the skin, eyes or respiratory tract.                                     |

|                 |                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Teratogenicity  | No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and / or materials of similar composition.                                                                                                                                                                                 |
| Carcinogenicity | Mineral base oil is severely solvent refined and / or severely hydro treated. Chronic mouse skin painting studies of severely treated oils showed evidence of carcinogenic effects. Synthetic base oils have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures. |

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## 12. Ecological Information

### *Elimination information (persistence and durability)*

|                                                              |                                                                                                                                        |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability                                             | This product is expected to be inherently biodegradable.                                                                               |
| Physic-chemical removability                                 | Absorption to sediment and soil will be the predominant behaviour.                                                                     |
| Bioaccumulation                                              | Minimal owing to low water solubility                                                                                                  |
| <b>Eco toxicity effects</b><br>Toxicity to aquatic organisms | This substance is practically non-toxic to aquatic organisms (LL50>1000 mg/l).                                                         |
| <b>Further information on ecology</b><br>Remarks             | In the absence of specific environmental data for this product, this assessment is based on information for representative substances. |

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## 13. Disposal Considerations

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal         | Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.                                                               |
| Contaminated packaging | Empty containers retain residue (liquid and / or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. |

# SPEC OIL

Other regulations

The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Flash Point

>215 °C (ASTM D-92)

## 14. Transport Information

Note

This product is not regulated by the following: U.S DOT (CFR), ADR, IATA, and IMDG.

## 15. Regulatory Information

US OSHA Hazard  
Communication Standard

When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

Governmental Inventory

All components comply with TSCA, EINECS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.

EU labelling

Product is not dangerous as defined by the European Union Dangerous Substances / Preparations Directives. EU labelling not required.

### SARA

U.S Superfund Amendments  
and Reauthorization Act SARA  
Title III

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) Reportable  
Hazard Categories

None

The following product ingredient are cited on the list below

| Chemical name | Cas- no. | Concentration (%) | List Citations |
|---------------|----------|-------------------|----------------|
|---------------|----------|-------------------|----------------|

### Regulatory List Searched

1=ACGIH ALL  
2=ACGIH A1  
3=ACGIH A2

6=IARC 1  
7=IARC 2A  
8=IARC 2B

11=TSCA 4  
12=TSCA 5a2  
13=TSCA 5e

17=CA P65  
18=CA RTK  
19= FL RTK

22=MI 293  
23=MN RTK  
24=NJ RTK

4=NTP CARC  
5=NTP SUS

9=OSHA CARC  
10=OSHA Z

14=TSCA 6  
15=TSCA 12b

20=IL RTK  
21=LA RTK

25=PA RTK  
26=RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

## 16. Other Information

Note: Spec Oil products do not contain PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for any other applications. In any case, the following advice should be considered:

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FIRST AID                | Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapour, remove to fresh air. If ingested do not induce vomiting. If any symptoms persist seek medical attention. Read and understand the MSDS before using this product.                                                                                                                                                                 |
| INJECTION INJURY WARNING | If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. |
| SAFETY                   | Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or irritation. Always observe good hygiene measures.                                                                                                                                                                                                                                  |

## Disclaimer

Information given here in is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind of nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

# ***SPEC OIL***

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