

MATERIAL SAFETY DATA SHEET

1. Chemical Product

Product Name SPEC OIL 5^{1H} WHEEL (T/F)

Product Use Industrial Grease

2. Composition / Information On Ingredients

Chemical Name	Cas- no.	Weight %	Symbol Codes	R-Phrase Numbers
Graphite	7782-42-5	<9.00		R36,R37
Lithium 12-hydroxystearate	7260-77-7	<5.00		
Zinc Dialkyl Dithiophosphate	68649-42-3	<2.50	Xi, N	R38,R41,R51/53
Zinc oxide	1314-13-2	<2.50	N	R50/53
n-Phenyl benzenamine	68411-46-1	<1.00	N	R51/53
Molybdenum (IV) Sulphide	1317-33-5	<1.00		

See Section 15 for European Label Information See Section 8 for Exposure Limits (if applicable)

3. Hazards Identification

Emergency response data: Black / very tacky semi solid. Material is combustible. 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.

Skin Repeated or excessive exposure may cause skin dryness or cracking.

Potential environmental effects This product is not readily biodegradable.

See Section 11 for further health effects / toxicological data



4. First Aid Measures

Inhalation Under certain conditions smoke may be generated. Remove victim from further

exposure.

Skin contact Wash contact areas with soap and water.

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.

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.

Products of decomposition Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other

decomposition products, in the case of incomplete combustion.

Upper Explosion Limits

Lower Explosion Limits

NFPA Hazard ID

7.0 % (V) 0.9 % (V)

Health: 0; Flammability: 1; Reactivity: 0

6. Accidental Release Measures

Procedure if material is released or spilled

Report spills / release as required to appropriate authorities.

Methods for cleaning up

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.

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.



Environmental precautions | Prevent spill from entering municipal sewers, water sources or low lying areas.

Advise the relevant authorities if contaminations have occurred.

Personal precautions See section 8

7. Handling And Storage

Safe handling advice High pressure injection under the skin may occur due to the rupture of pressurised

lines. (See Section 16 – Injection Injury)

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.

8. Exposure Controls / Personal Protection Occupational Exposure Limits (OELs)

Components	Cas- no.	Source	TWA	Value	Notations
Graphite	7782-42-5	ACGIH	LTEL	2 mg/m3	
			STEL	6 mg/m3	
		OSHA	LTEL	2.5 mg/m3	
			STEL	7.5 mg/m3	
Zinc oxide	1314-13-2	ACGIH	LTEL	5 mg/m3	FUMES
			STEL	10 mg/m3	
		OSHA	LTEL	5 mg/m3	FUMES
			STEL	10 mg/m3	
Molybdenum (IV)	1317-33-5	ACGIH	LTEL	10 mg/m3	
Sulphide			STEL	30 mg/m3	
		OSHA	LTEL	10 mg/m3	
			STFI	30 mg/m3	

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 Shown for guidance only. Follow applicable regulations.

Personal Protection Equipment (PPE)

Engineering controls Use in well-ventilated area.

Respiratory protection No special requirements under ordinary conditions of use and with adequate

ventilation.





If eye contact is likely, normal industrial eye protection practices should be Eye protection

employed.

Skin and body protection If prolonged or repeated skin contact is likely, wear oil impervious gloves and

clothing. Good personal hygiene practices should always be followed.

9. Physical And Chemical Properties

Appearance	Semi Solid
Colour	Black / tacky
Base component	Lithium Grease
Odour	Characteristic
Solubility	Immiscible

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

Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other products

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.

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.).

Carcinogenicity Repeated and / or prolonged exposure may cause irritation to the skin, eyes or

respiratory tract. Mineral base oils are severely solvent refined and severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed

no evidence of carcinogenic effects.

Other toxicological information No significant effects expected .

12. Ecological Information

Elimination information (persistence and durability)

Biodegradability This product is not inherently biodegradable..

Physic-chemical removability Not established.

Bioaccumulation Not established.

Eco toxicity effects

Further information on ecology

Remarks

The major components in the formulation show no aquatic toxicity at 1000 mg/L loading, therefore long-term adverse effects in the aquatic environment are not

nerted

expected.



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 Conversation 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.

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.

14. Regulatory Information

US OSHA Hazard Communication Standard When used for its intended purposes, this product is not classified as hazardous in

andard accordance with OSHA 29 CFR 1910.1200.

EU labelling

Product is not dangerous as defined by the European Union Dangerous Substances

/ Preparations Directives. EU labelling not required.

R-phrase(s)

R50/53

Very toxic to aquatic organisms; may cause long-term adverse effects in the

aquatic environment.

S-phrase(s) S60

This material and its container must be disposed of as hazardous waste.

SARA

U.S Superfund Amendments and Reauthorization Act SARA

Title III

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

None

SARA (311/312) Reportable Hazard Categories

The following product ingredient are cited on the list below

Chemical name	Cas- no.	Concentration (%)	List Citations
Graphite	7782-42-5	<9.00	1,10,18,19,20,21,23,25,26
Lithium 12- hydroxystearate	7260-77-7	<5.00	22
Zinc Dialkyl Dithiophosphate	68649-42-3	<2.50	18,20,21,22,24,25
Zinc oxide	1314-13-2	<2.50	1,10,18,19,20,21,22,23,24,25,26
n-Phenyl benzenamine	68411-46-1	<1.00	
Molybdenum (IV) Sulphide	1317-33-5	<1.00	1,10,18,20,21,23

Regulatory List Searched

1=ACGIH ALL	6=IARC 1	11=TSCA 4	17=CA P65	22=MI 293
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	18=CA RTK	23=MN RTK
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	19= FL RTK	24=NJ RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	20=IL RTK	25=PA RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	21=LA RTK	26=RI RTK



Code Key: CARS = Carcinogen; SUS = Suspected Carcinogen

15. 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 her 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.

