

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/15/2021 Revision date: 1/19/2023 Supersedes: 10/10/2022 Version: 1.6

SECTION 1: Identification	
1.1. Identification Product form	: Mixture
Trade name	: Z-50™
Product code	: J204
1.2. Recommended use and restrictions on u Use of the substance/mixture	use : Lubricant
	. Ludicant
1.3. Supplier	
Manufacturer Whitmore Manufacturing LLC 930 Whitmore Drive Rockwall, Texas, 75087 USA T 1.972.771.1000 <u>Regulatory@whitmores.com</u> - <u>www.jetlube.com</u>	
1.4. Emergency telephone number	
Emergency number	: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887 (collect calls accepted)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mixtu	re
GHS US classification Not classified	
2.2. GHS Label elements, including precaution	onary statements
<ul> <li>GHS US labeling</li> <li>No labeling applicable</li> <li>2.3. Other hazards which do not result in cla</li> <li>No additional information available</li> <li>2.4. Unknown acute toxicity (GHS US)</li> <li>No additional information available</li> </ul>	ssification
SECTION 2: Composition/Information	n ingradianta
SECTION 3: Composition/Information or 3.1. Substances	ningrealents
Not applicable	
3.2. Mixtures	
This mixture does not contain any substances to be n	nentioned according to the criteria of section 3.2 of HazCom 2012
SECTION 4: First-aid measures	
4.1. Description of first aid measures First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects (a	
No additional information available	acute and delayed)
<b>4.3. Immediate medical attention and special</b> Treat symptomatically.	I treatment, if necessary
SECTION & Fire fighting measures	
SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing	media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the chemi	

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 5.3. Special protective equipment and precautions for fire-fighters Protection during firefighting : Do not attempt to take ad

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

	tal release measures			
6.1. Personal precautio	ons, protective equipme	nt and emergency pro	ocedures	
6.1.1. For non-emergency Emergency procedures	•	Exercise caution. Spill are	ea may be slippery.	
6.1.2. For emergency resp Protective equipment	<b>1.2. For emergency responders</b> rotective equipment       : Do not attempt to take action without suitable protective equipment. For further information r to section 8: "Exposure controls/personal protection".			quipment. For further information refer
6.2. Environmental pre	cautions	to section 6. Exposure of	unitors/personal protection .	
Avoid release to the enviror	rial for containment and	l cleaning un		
Methods for cleaning up		Mechanically recover the	product.	
Other information	:	Dispose of materials or se	olid residues at an authorized site	9.
<b>6.4. Reference to other</b> For further information refer				
SECTION 7: Handling				
7.1. Precautions for sa Precautions for safe handling		Ensure good ventilation of	of the work station. Wear persona	al protective equipment
Hygiene measures	0	•	e when using this product. Alway	
	e storage, including any			
Storage conditions	:	Store in a well-ventilated	place. Keep cool.	
SECTION 8: Exposure 8.1. Control parameters	re controls/personal p s	protection		
Z-50™				
No additional information a	available			
8.2. Appropriate engine Appropriate engineering co		Ensure good ventilation c	of the work station.	
Environmental exposure co	ntrols :	Avoid release to the envir	ronment.	
8.3. Individual protection	on measures/Personal p	protective equipment		
Hand protection:				
Neoprene or nitrile rubber	gloves			
Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm	
Eye protection:				
Wear eye protection				
Skin and body protection	ו:			
Wear suitable protective cl	othing			
Respiratory protection:				
No respiratory protection n	eeded under normal use cor	nditions		
	I and chemical proper sic physical and chemic			
Physical state		Solid		

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Appearance	: Grease.
Color	: Gray
Odor	: petroleum-like odor
Odor threshold	: No data available
pН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: > 221 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
VOC content	: < 0.1 %

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

### No additional information available

### 10.6. Hazardous decomposition products

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

#### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Viscosity, kinematic

: Not applicable

viscosity, kinematic	: Not applicable		
SECTION 12: Ecological info	rmation		
12.1. Toxicity			
Ecology - general	: Harmful to aquatic lif	e with long lasting effects.	
<b>12.2. Persistence and degradab</b> No additional information available	ility		
<b>12.3. Bioaccumulative potential</b> No additional information available			
<b>12.4. Mobility in soil</b> No additional information available			
12.5. Other adverse effects			
No additional information available			
SECTION 13: Disposal consi	derations		
13.1. Disposal methods			
Waste treatment methods	: Dispose of contents/	container in accordance with licensed	collector's sorting instructions.
SECTION 14: Transport infor	mation		
In accordance with DOT / TDG / IMDG			
DOT	TDG	IMDG	IATA
14.1. UN number	I	I	1
3077	UN3077	3077	3077
14.2. Proper Shipping Name			
Environmentally hazardous substances, solid, n.o.s. (CONTAINS : Zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc)	Environmentally hazardous substance, solid, n.o.s. (CONTAINS : Zinc)
Transport document description			
UN3077 Environmentally hazardous substances, solid, n.o.s. (CONTAINS : Zinc), 9, III	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS : Zinc), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (CONTAINS : Zinc), 9, III
14.3. Transport hazard class(es	5)		
9	9	9	9
14.4. Packing group			·
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available	ble		
· · · · · · · · · · · · · · · · · · ·			

### 14.6. Special precautions for user

DOT UN-No.(DOT)

: UN3077

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	,
DOT Packaging Eventions (49 CER 173 yy)	<ul> <li>8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.</li> <li>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 1718, of this subchapter, or any hazard class as defined in Part 173 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, and new program design and response to the definition. In cast, and response to the response the response to the substance, solid, n.o.s." UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as buk packaging.</li> <li>384 - For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in \$73.121(b)(10)(b)(10)(i) and (b)(11)(i) or this subchapter, may be reassigned to Packing Group III under the following conditions:</li> <li>Atta: 11A, 11B, 11N, 21A, 21B and 21N</li> <li>b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2</li> <li>c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2</li> <li>d. Fiberboard: 11G</li> <li>e. Wooden: 11C, 11D and 11F (with inner liners)</li> <li>f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sith-proof and water resistant liner).</li> <li>B54 - Open-top, sith-proof rail cars are also authorized.</li> <li>B120 - The use of flexible buk containers conforming to the requirements in subpart R and subparts of part 178 of this subchapter is permitted.</li> <li>B84 - Authorized IBCS: Metal (11A, 11B, 11N, 2</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155 : 213
DOT Packaging Non Bulk (49 CFR 173.xxx)	
DOT Packaging Bulk (49 CFR 173.xxx)	: 240 : No Limit
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No Limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	

UN-No. (TDG)

: UN3077

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance
	with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown,
	in parentheses, on a small means of containment or on a tag following the shipping name in
	accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).
	(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law
	for domestic transport or an international convention for international transport prohibits the
	disclosure of the technical name:
	(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
	(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
	(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
	(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.
	(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:
	(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS,99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077
	if there is no visible liquid when the dangerous goods are loaded into a means containment and
	during transport.
	(2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering
	for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082,
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of
	containment designed, constructed, filled, closed, secured and maintained so that under normal
	conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 kg
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
IMDG	
Special provision (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
ΑΤΑ	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: ¥956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
	5
Special provision (IATA)	: A97, A158, A179, A197, A215

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### ERG code (IATA)

### : 9L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Zinc	CAS-No. 7440-66-6	48.92025 – 51.495%
cadmium oxide, stabilized	CAS-No. 1306-19-0	≤ 0.030897%

#### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Zinc(7440-66-6)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
zinc oxide(1314-13-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
lead monoxide(1317-36-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List
cadmium oxide, stabilized(1306-19-0)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
mica(12001-26-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
talc(14807-96-6)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
calcium oxide(1305-78-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List
calcium carbonate(471-34-1)	U.S Massachusetts - Right To Know List
magnesium oxide(1309-48-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Component	State or local regulations
calcium sulfate(7778-18-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 1/19/2023

Safety Data Sheet (SDS), USA

. 1/13/2023

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.