

SAFETY DATA SHEET

1. Identification

Product identifier	ZRC Galvilite Galvanizing Repair Compound
Other means of identification	
Product code	20012 - 20014
Recommended use	Corrosion protection of iron and steel.
Recommended restrictions	None known.
Manufacturer / Importer / Supplie	r / Distributor information
Supplier/Manufacturer	ZRC Worldwide
Address	145 Enterprise Drive, Marshfield, MA 02050
Telephone	781-319-0400
Emergency telephone (CHEMTREC)	703-527-3887 CCN15781

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning		
Hazard statement	Flammable liquid and vapor. Causes skin irritation.		
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.		
Response	Rinse mouth. In case of fire: Use appropriate media to extinguish. If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Store in a well-ventilated place. Keep cool.		
Disposal	Dispose of contents/container in accordance v	vith local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	Not classified.		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1	
	Hazardous to the aquatic environment, long-term hazard	Category 1	
Supplemental information			
Hazard symbol			
Hazard statement	Very toxic to aquatic life. Very toxic to aquatic	life with long lasting effects.	
Precautionary statement			
Prevention	Avoid release to the environment.		
Response	Collect spillage.		

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Zinc	7440-66-6	75 - 85
Solvent naphtha (petroleum), medium aliph.	64742-88-7	4 - 6
Distillates (petroleum), hydrotreated light	64742-47-8	4 - 5
Zinc oxide	1314-13-2	2 - 3
Solvent naphtha (petroleum), light aromatic	64742-95-6	0.5 - 0.9

4. First-aid measures

Inhalation Move to fresh air. Get medical attention if any discomfort continues. Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Ingestion Rinse mouth. Get medical attention if any discomfort occurs. Most important Direct contact with eyes may cause temporary irritation. Causes skin irritation. Swallowing may symptoms/effects, acute and cause gastrointestinal irritation. delayed Indication of immediate Provide general supportive measures and treat symptomatically. medical attention and special treatment needed **General information** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 5. Fire-fighting measures

Suitable extinguishing media Dry chemical, CO2, water spray, fog, or foam. Unsuitable extinguishing Do not use water jet. media Specific hazards arising from By heating and fire, harmful vapors/gases may be formed. Vapors may form explosive mixtures the chemical with air. Vapors may travel considerable distance to a source of ignition and flash back. Special protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with and precautions for firefighters face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use **Fire-fighting** standard firefighting procedures and consider the hazards of other involved materials. In the event equipment/instructions of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. In case of fire and/or explosion do not breathe fumes. Water runoff can cause environmental damage.

6. Accidental release measures

Personal precautions. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of protective equipment and low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before emergency procedures entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Methods and materials for Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Collect spillage. Scoop up used absorbent into drums or other containment and cleaning up appropriate container. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see Section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic **Environmental precautions** environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. 7. Handling and storage Precautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect

recautions for safe handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. For further information, please refer to Section 10 of the SDS.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values			

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

US NIOSH Pocket Guide to Chemical Hazards: Ceiling Limit Value and Time Period (if specified)

Components	Туре	Value	Form	
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.	
US NIOSH Pocket Guide to Chemic	cal Hazards: Recommended	exposure limit (REL)		
Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3		
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Dust.	
		5 mg/m3	Fume.	
US NIOSH Pocket Guide to Chemic	cal Hazards: Short Term Exp	osure Limit (STEL)		

Components	Туре	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).	
Appropriate engineering controls	Explosion-proof general and local exh	aust ventilation.	
Individual protection measures,	such as personal protective equipme	ent	
Eye/face protection	Do not get in eyes. If contact is likely,	safety glasses with side shield	Is are recommended.
Skin protection			
Hand protection	Use protective gloves made of: Rubber (natural, latex).		
Other	Wear suitable protective clothing.		
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		ey must use appropriate
Thermal hazards	Wear appropriate thermal protective of	lothing, when necessary.	
General hygiene considerations	When using, do not eat, drink or smol as washing after handling the materia wash work clothing and protective equ	e. Always observe good perso and before eating, drinking, a upment to remove contaminar	onal hygiene measures, such ind/or smoking. Routinely its.

9. Physical and chemical properties

Appearance	Gray liquid.
Physical state	Liquid.
Form	Liquid.
Color	Gray.
Odor	Aliphatic. Hydrocarbon.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	291.2 - 404.6 °F (144 - 207 °C)
Flash point	111.2 °F (44.0 °C) Setaflash
Evaporation rate	< 1 (n-Butyl acetate=1)

ZRC Galvilite Galvanizing Repair Compound

Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	0.9 %
Flammability limit - upper (%)	7 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	> 1 (25°C / 77°F)
Relative density	2.88 (25°C / 77°F)
Solubility(ies)	Slightly soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	1800 mPa⋅s (25°C / 77°F)
Other information	
Bulk density	24 lb/gal
VOC (Weight %)	385 g/l (3.3 lb/gal)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Zinc oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. Causes skin irritation. Swallowing may cause gastrointestinal irritation.

Information on toxicological effects

Acute toxicity	Not classified.	
Components	Species	Test Results
Distillates (petroleum), hyd	drotreated light (CAS 64742-47-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5.28 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg

Components	Species	Test Results
Solvent naphtha (petroleum), med	ium aliph. (CAS 64742-88-7)	
Acute		
Dermal		
LD50	Rabbit	3000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Not classified.	
Respiratory sensitization	Not classified.	
Skin sensitization	Not classified.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Not classified.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not classified.	
Chronic effects	Prolonged exposure may cause chronic effects.	

12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.		
Components		Species	Test Results
Zinc (CAS 7440-66-6)			
Aquatic			
Crustacea	LC50	Daphnia magna	0.068 mg/l, 48 hours
Fish	LC50	Bony fish superclass (Osteichthyes)	0.52 - 3.59 mg/l, 96 hours
Zinc oxide (CAS 1314-13-2)			
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	0.098 mg/l, 48 Hours
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	Accumulation in aquatic organisms is expected.		
Mobility in soil	Not available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN1263
UN proper shipping name	Paint

mansport nazaru ciass(es)	3		
Subsidiary class(es)	-		
Packing group			
Environmental hazards			
Marine pollutant	Yes		
Special precautions for user	Read safety instructions, SDS and	d emergency proc	edures before handling.
ΙΑΤΑ			
UN number	UN1263		
UN proper shipping name	Paint		
Transport hazard class(es)	3		
Subsidiary class(es)	-		
Packaging group			
Environmental hazards	Yes		
Eabels required	3 Net available		
Special proceptions for user	Read safety instructions SDS and	d emergency proc	edures before handling
	Read salety instructions, 5DS and	a enlergency proc	edures before nandling.
	1101263		
UN number	Din 1203		
Transport bazard class(os)	3		
Subsidiary class(es)	-		
Packaging group	111		
Environmental hazards			
Marine pollutant	Yes		
Labels required	Not available.		
EmS	F-E, S-E		
Special precautions for user	Read safety instructions, SDS and	d emergency proc	edures before handling.
Transport in bulk according to	This substance/mixture is not inte	nded to be transpo	orted in bulk.
Annex II of MARPOL 73/78 and			
the IBC Code			
General information	Limited Quantity exemption may a	apply.	
15. Regulatory information			
15. Regulatory information US federal regulations	This product is a "Hazardous Che Standard, 29 CFR 1910.1200.	mical" as defined	by the OSHA Hazard Communication
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Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
US state regulations	
US. Massachusetts RTK - Substance List	

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Zinc (CAS 7440-66-6) Zinc oxide (CAS 1314-13-2)

US. New Jersey Worker and Community Right-to-Know Act

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	10000 lbs
Zinc (CAS 7440-66-6)	500 lbs
Zinc oxide (CAS 1314-13-2)	500 lbs
US. Pennsylvania RTK - Hazardous Substances	

Distillates (petroleum), hydrotreated light (CAS 64742-47-8) Zinc (CAS 7440-66-6) Zinc oxide (CAS 1314-13-2) **US. Rhode Island RTK**

Zinc (CAS 7440-66-6)

Zinc oxide (CAS 1314-13-2)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	14-December-2013
Revision date	17-January-2014
Version #	03
NFPA Ratings	2 0

References

HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity The information in the sheet was written based on the best knowledge and experience currently available.