

MATERIAL SAFETY DATA SHEET

ZIRCONIUM OCTOATE 18%

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

Product Name: ZIRCONIUM OCTOATE 18%
Applications: INK / PAINT DRIER

1.2 IDENTIFICATION OF THE COMPANY:

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2 COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	TOXICITY DATA LD ₅₀ / LC ₅₀	NA OR UN #	C.A.S. #
ZIRCONIUM OCTOATE	LD ₅₀ Oral (RAT) -3900 Mg/Kg (From Similar Type Material)	UN 1263	22464-99-9
MINERAL SPIRIT	LD50 Oral (RAT) -1000 Mg/Kg Dermal (RAT) -1000 5000 Mg/Kg	UN 1225	64475-85-0

3 HAZARDOUS IDENTIFICATION

HAZARDOUS INGREDIENTS	TOXICITY DATA LD ₅₀ / LC ₅₀	NA OR UN #	C.A.S. #
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- Harmful by inhalation and if swallowed
- May cause sensitization by skin contact
- Harmful May cause lung amage if swallowed
- Repeated exposure may cause skin dryness or cracking

4 FIRST AID MEASURES

GENERAL	Contaminated clothing should be removed and washed before being re-used.
Inhalation	Remove victim immediately from source of exposure Move the exposed person to fresh air at once get medical attention if any discomfort continues.
Ingestion	DO NOT induce vomitiing Get medical attantion immediately Drink plenty of water Wash the skin immediately with soap and water Remove and clean contaminated cloth and shoes get
Skin	medical attention if any discomfort continues.
Eyes	Promptly wash eyes with plenty of water. Hold eyelids apart to ensure washing of the entire surface of the eyes and lids with water. Get Medical attention immediately Continue to rinse.

DISCLAIMER

This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current. For further information and advice please contact RAR RESIN Technical Service Department.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Use Water spray fog or mist Foam, Carbon dioxide CO2 Sand dolomite etc.
SPECIAL FIRE FIGHTING PROCEDURES	Avoid Wated in straight hose stream will scatter and spread fire Cool containers exposed to flames with untill well after the fire is out Keep run-off water out of sewers and water sources, Dike for water control.
UNUSUAL FIRE & EXPLOSION HAZARDS	Vapour-air mixture is explosive Keep containers cool by sraying water.
PROTECTIVE MEASURES IN CASE OF FIRE	Wear self-contained breathing apparatus and full protective gear

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Use Water spray fog or mist Foam, Carbon dioxide CO2 Sand dolomite etc.
PRECAUTIONS TO PROTECT ENVIRONMENT	Avoid Wated in straight hose stream will scatter and spread fire Cool containers exposed to flames with untill well after the fire is out Keep run-off water out of sewers and water sources, Dike for water
SPILL CLEAN-UP METHODS	Extinguish all ignition sources. Avoid sparks, flames, head and smoking. Ventilate absorb or earth and place into containers.

7 HANDLING AND STORAGE

HANDLING PRECAUTIONS	Avoid spilling skin and eye contact. Keep away from heat sparks and open flame, Ventilate well. Avoid breathing vapours. Use apprived respirator if air contaminated is above accepted level.
STORAGE PRECAUTIONS	Keep in cool, dry, ventilated storage and closed containers
STORAGE CRITERIA	Chemical storage, Flammable liquid storage.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION	Provide adequate general and local exhaust ventilation.
RESPIRTORS	No specific recommendation mande but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. In conditions where high concontration of vapours are present of exposure limits are exceeded. wear a respirator that has been selected by a technically qualified person for the specific work conditions.
PROTECTIVE GLOVES	Chemical resistant gloves required for prolonged or repeated contact
EYE PROTECTION	Wear splash-proof, chemical safety goggles to prevent any possibility of eye contact.
OTHER PROTECTION	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENIC WORK ROUTINES	Change work cloth daily before leaving work place. Employees should wash their hand and face before eating,drinking. DO NOT SMOKE IN WORK AREA.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / PHYSICAL STATE	Clear to Pale Yellow Liquid.
COLOR	Clear to Pale Yellow
% Non-volatile matter	55 - 60 %
% Metal Content	18 ± 0.5 %
Specific Gravity @ 25°C	1.09 - 1.13 approx
Flash Point	55°C
Solubility in water	Insoluble

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10 STABILITY AND REACTIVITY

STABILITY	No particular stability concerns
MATERIAL TO AVOID	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion can produce oxides of carbon and compounds of the contained metal(S).

11 TOXICOLOGICAL INFORMATION

INHALATION	Concentrated solvent vapours may cause headache and in severe cases incoordination.
INGESTION	Nausea, vomiting and abdominal pain
SKIN	Prolonged contact may cause irritation
EYES	May cause irritation
HEALTH WARNINGS	repeated skin contact there is a risk dermatitis

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS	Avoid washing onto water courses. Avoid contamination public drain or water supply.
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13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Dispose of in accordance with local national regulations. DO NOT cut. Burn or use flames on or near drums.
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14 TRANSPORT INFORMATION

Under 454 L - Via Land	No special shipping requirements.
Over 454 L - Via Land	PAINT RELATED MATERIAL, Class 3, UN 1263 P.G.III, Labels required. Flammable/UN 1263
ANY QUANTITY - VIA SEA	No special shipping requirements. PAINT RELATED MATERIAL, Class 3, UN 1263 P.G.III, flash Point 55°C Labels required. Flammable Liquid Class 3.
ANY QUANTITY - VIA SEA	PAINT RELATED MATERIAL, Class 3, UN 1263 P.G.III, Flash Point 55°C Labels required. Flammable Liquid Class 3.

15 REGULATORY INFORMATION

LABEL FOR SUPPLY :

RISK PHRASES	R10	Flammable
	R65	Harmful - may cause lung damage if swallowed.
SAFETY PHRASES	S23	Do not breathe vapours
	S24	Avoid contact with the skin
	S37	Wear suitable gloves
	S46	If swallowed, seek medical advice immediately and show this container or label.

GUIDANCE NOTES	Users are advised to consult these regulations for further information
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16 OTHER INFORMATION

The information contained herein is based on current knowledge and experience, no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees, customers and third parties and the protection of the environment.