

Product: MIXLAND+ ZNO 90% GA

> Version: 3 Date: 06/16/2009

> > Cancels and replaces version 2 of 05/22/2008

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01 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

PRODUCT NAME ZINC OXIDE

SUPPLIER MLPC International

209 Avenue Charles DESPIAU 40370 RION DES LANDES

Tel: 33-5-58-57-02-00 (International) 05-58-57-02-00 (France) Fax: 33-5-58-57-02-05 (International) 05-58-57-02-05 (France)

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**ORPHILA** 33-1-45-42-59-59 (International) 01-45-42-59-59 (France)

02 - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS SAFETY INFORMATIONS: PLEASE READ THIS SHEET CAREFULLY

**HEALTH EFFECTS** May cause irritation of eyes, respiratory system or skin.

**ENVIRONMENTAL EFFECTS** Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

SPECIFIC HAZARDS / FC

03 - COMPOSITION / INFORMATION ON INGREDIENTS

ZINC OXIDE CHEMICAL NAME OF THE SUBSTANCE

ZINC OXIDE CAS 1314-13-2

PARAFFINIC OIL **THERMOPLASTIC** 

**EINECS / ELINCS** 215-222-5 ZINC OXIDE

PARAFFINIC OIL **THERMOPLASTIC** 

CHEMICAL NATURE OF THE PREPARATION

DISPERSION OF ZINC OXIDE (90 %) IN THERMOPLASTIC Paraffinic oil (10 %) PCA's (IP346) < 3% **ADDITIVES** 

No CE labelling

HAZARDOUS COMPONENTS ZINC OXIDE (90 %)

04 - FIRST AID MEASURES

**GENERAL ADVICE** 

INHALATION Dust inhalation: Move to fresh air.

In case of persistent problems: Consult a doctor.

SKIN CONTACT Wash immediately and abundantly with water. In case of important contact: seek a medical advice.

**EYE CONTACT** Wash immediately and abundantly with water for at least 15 minutes.

If irritation persists, consult an ophthalmologist.

**INGESTION** In case of problems: Consult a doctor.

PROTECTION OF FIRST-AIDERS In case of insufficient ventilation, wear suitable respiratory equipment.

05 - FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Water spray, foam, dry powder.

SPECIFIC METHODS Avoid the run-off of polluted water in the environnement.

SPECIAL PROTECTIVE EQUIPMENT FOR Wear a self-contained breathing apparatus and protection equipment.

**FIREFIGHTERS** 

**06 - ACCIDENTAL RELEASE MEASURES** 

PERSONAL PROTECTION Avoid contact with skin, eyes and inhalation of dust.

**ENVIRONMENTAL PROTECTION** Do not let the product enter into drains. Do not contaminate surface water.

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METHODS FOR CLEANING UP

Recovery Shovel up.

Recover the product and place in a dry labelled container.

Disposal To eliminate in an authorized incineration station or otherwise in compliance with law

enforced regulations.

07 - HANDLING AND STORAGE

HANDLING .

Technical measures / Precautions Storage and handling precautions applicable to products: DUST FORMING.

Provide appropriate exhaust and ventilation at machinery.

Provide appropriate device to allow to rinse eyes.

Safe handling advice If dust is formed, wear a dust mask.

STORAGE

Incompatible products Oxidants, strong acids.

PACKAGING MATERIALS .

Recommended Boxes with polyethylene liner or polyethylen bags...

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE PROVISIONS Provide sufficient air exchange and/or exhaust in work areas.

CONTROL PARAMETERS .

Exposure limits Dusts: FRANCE 1999 VME = 10 mg/m3

Respirable dusts: FRANCE 1999 VME = 5 mg/m3 TLV-TWA 8 h: dust 10 mg/m3; smoke 5 mg/m3

PERSONAL PROTECTION EQUIPMENT .

Respiratory protection Dust mask.
Hand protection Gloves.

Eye protection Safety glasses.

Skin and body protection Protective clothing.

Specific hygiene measures Maintain strict body hygiene.

Avoid contact with skin, eyes and inhalation of dust.

09 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE (20℃) Solid.

COLOR White to yellowish

ODOUR Nil.

pH Not applicable.
BOILING POINT / RANGE Not applicable.

MELTING POINT / RANGE 1975 ℃ with sublimation

DECOMPOSITION TEMPERATURE Sublimation.

FLASH POINT No data available.

EXPLOSIVE LIMITS .

Lower No data available.

Higher No data available.

BULK DENSITY 3600 kg/m3 (20 ℃)

SOLUBILITY .

Water Slightly soluble : < 2 g/l
Solvents Acids and alcalis.

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10 - STABILITY AND REACTIVITY

MATERIALS TO AVOID Oxidants, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS Nil

11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Inhalation LC 50 / inhalation / rat / 4 hours : > 5,7 mg/l.

Ingestion L.DL0 / oral / human : 500 mg/kg

LD 50 / oral / rat : > 15000 mg/kg

Skin-contact No data available.

LOCAL EFFECTS .

Inhalation No data available.

Skin-contact In animals (rabbits) : Slightly irritating.

Eye-contact In animals (rabbits) : Slightly irritating.

SENSITIZATION .

Skin-contact In animals (guinea-pig): Not sensitizer to skin.

CHRONIC TOXICITY 50 mg ZnO / day

SPECIFIC EFFECTS GENOTOXICITE: tests and vitro et in vivo at short time: non genotoxic.

CANCEROGENESE: Experimentation with different kinds of animals didn't show

cancerogenic effects; no proves for cancerogenic effects on humans.

12- ECOLOGICAL INFORMATION

- NO INFORMATION AVAILABLE

PERSISTENCE / DEGRADABILITY Not applicable.
BIOACCUMULATION Not applicable.

ECOTOXICITY . AQUATIC TOXICITY .

Acute toxicity EC 50 (Selenastrum capriconutum) 72 h : 170 µg/l ZnO

13 - DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT To eliminate in an authorized incineration station or otherwise in compliance with law

enforced regulations.

DISPOSAL OF PACKAGING

To eliminate as industrial or dangerous disposals in function of the nature and degree of

pollutions

14 - TRANSPORT INFORMATION

UN Number 3077

ADR / RID Class : 9

Packaging group : III

Prescriptions RID / ADR Labels : 9 + dangerous for the environment

IMDG Class: 9

Packaging group : III

\* Prescriptions IMDG Labels: 9 + dangerous for the environment

IATA Class: 9

Packaging group : III

Prescriptions IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S

(zinc oxide), 9, III

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#### 15 - REGULATORY INFORMATION

**EEC DIRECTIVE** 

SAFETY DATA SHEETS

EC CLASSIFICATION / LABELLING

DANGEROUS PREPARATIONS

D.91/155/EEC amended by D.2001/58/CE : Dangerous substances and  $\,$  preparations.

D. 2001/59/EEC amended by D. 2004/73/EEC : (29 rd APT)

N (DANGEROUS FOR THE ENVIRONMENT)

R  $\,$  50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environnement.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

D.2001/58/EC du 27/07/2001

DANGEROUS PREPARATION France : Arrêté du 9 novembre 2004 définissant les critères de classification et les

conditions d'étiquetage et d'emballage des préparations dangereuses et transposant la directive 1999/45/CE du Parlement européen et du Conseil du 31 mai 1999.

#### **16 - OTHER INFORMATION**

SAFETY DATA SHEET

BIBLIOGRAPHY REFERENCES Toxicity and safe handling of rubber chemicals (BRMA 1999).

Dangerous properties of industrial chemicals (SAX 6th edition). Registry of toxic effects of chemicals substances (RTECS of NIOSH).

Aquatic toxicology (VAN LEEUWEN 1985).

INRS documentation.

Chemical Name : ZINC OXIDE Risk Phrases R 50/53.

This information applies to the PRODUCT AS SUCH and conforming to specifications of MLPC International.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear.

The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in application for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes.

The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product.

The (  $\ensuremath{^{\star}}$  ) indicate the modifications compared to the previous version.