

# SAFETY DATA SHEET ZOK 27 READY TO USE

## 1. Identification

**Product identifier** 

Product name ZOK 27 READY TO USE

Recommended use of the chemical and restrictions on use

**Application** Cleaning compound, turbine engine gas path. Corrosion inhibitor.

Details of the supplier of the safety data sheet

**Supplier** Zokman Products Inc.

1220 E. Gump Road

Fort Wayne IN 46845 USA

+1 800 727 6027 +1 260 637 4038 +1 800 844 3227 +1 260 637 5031 zzokman@aol.com

Manufacturer ZOK International Group

Airworthy House Elsted Marsh Midhurst West Sussex GU29 0JT

+44 (0) 333 700 2727 +44 (0) 333 700 2728 zok@zok.com

Emergency telephone number

Emergency telephone CHEMTREC; 24 Hours. (800) 424-9300

## 2. Hazard(s) identification

## Classification of the substance or mixture

Physical hazards Not Classified

**Health hazards** Eye Irrit. 2A - H319

Environmental hazards Not Classified

Label elements

**Pictogram** 



Signal word Warning

Revision date: 8/16/2017 Revision: 1511 Supersedes date: 6/12/2015

#### **ZOK 27 READY TO USE**

Hazard statements H319 Causes serious eye irritation.

**Precautionary statements** P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/ attention.

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## 3. Composition/information on ingredients

#### **Mixtures**

Isotridecylalcohol, ethoxylated 1-5%

CAS number: 9043-30-5

Classification
Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

#### 4. First-aid measures

#### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any

discomfort continues.

Skin Contact Remove affected person from source of contamination. Take off immediately all contaminated

clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical

attention if irritation persists after washing.

**Eye contact** Remove affected person from source of contamination. Rinse immediately with plenty of

water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data

Sheet to the medical personnel.

## Most important symptoms and effects, both acute and delayed

Inhalation Vapors may irritate throat/respiratory system. Symptoms following overexposure to vapor may

include the following: Coughing, chest tightness, feeling of chest pressure.

**Ingestion** May cause stomach pain or vomiting.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** Irritating to eyes. Symptoms following overexposure may include the following: Redness.

Pain.

## Indication of immediate medical attention and special treatment needed

**Specific treatments** Treat symptomatically.

## 5. Fire-fighting measures

# Extinguishing media

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Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

Carbon monoxide (CO). Carbon dioxide (CO2).

Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

Use air-supplied respirator, gloves and protective goggles.

for firefighters

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions** 

**Environmental precautions** Avoid discharge to the aquatic environment. Contain spillage with sand, earth or other suitable

non-combustible material.

## Methods and material for containment and cleaning up

Stop leak if safe to do so. Small Spillages: Absorb spillage with non-combustible, absorbent Methods for cleaning up

> material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Collect and dispose of spillage as indicated in Section 13. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Collect and dispose of spillage as indicated in Section

13.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

#### 7. Handling and storage

#### Precautions for safe handling

Usage precautions Avoid contact with eyes. Avoid spilling.

## Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 4°C and 50°C. Store in tightly-closed, original container. Store

in a dry place.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

#### 8. Exposure Controls/personal protection

Triethanolamine (CAS: 102-71-6)

Ingredient comments No exposure limits known for ingredient(s).

#### **Exposure controls**

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#### Protective equipment





Appropriate engineering

controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or

ingredients. Avoid inhalation of vapors and spray/mists.

**Eye/face protection** Wear chemical splash goggles.

**Hand protection** Wear protective gloves made of the following material: Nitrile rubber.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not smoke in work area. Wash at the end of each work shift and before eating, smoking

and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate hand lotion to

prevent defatting and cracking of skin. When using do not eat, drink or smoke.

**Respiratory protection** Respiratory protection may be required if excessive airborne contamination occurs. Use

approved respirator if air contamination is above an acceptable level. Wear a respirator fitted

with the following cartridge: Organic vapor filter.

#### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Appearance Liquid.

**Color** Colorless to pale yellow.

Odor Characteristic.

Odor threshold Not applicable.

pH (concentrated solution): 7.2-7.5

Melting point 0°C

Initial boiling point and range 100°C @ 760 mm Hg

Flash point > 100°C PMCC (Pensky-Martens closed cup).

**Evaporation rate** Not applicable.

Flammability (solid, gas) Not relevant.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: Not applicable. Upper flammable/explosive limit: Not

applicable.

Vapor pressure Not relevant.

Vapor density Not relevant.

Relative density > 1.0 @ 20°C

Solubility(ies) Miscible with water.

Partition coefficient log Pow: < 3

Auto-ignition temperature Not relevant.

**Decomposition Temperature** Not applicable.

**Explosive properties** Not considered to be explosive.

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Oxidizing properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidizing.

Volatile organic compound This product contains a maximum VOC content of <50 g/l.

10. Stability and reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

Materials to avoid Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition

products

Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO2).

#### 11. Toxicological information

#### Information on toxicological effects

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitization

**Skin sensitization** May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitro

Does not contain any substances known to be mutagenic.

Genotoxicity - in vivo

Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Reproductive toxicity -

development

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

Target organs No specific target organs known.

Specific target organ toxicity - repeated exposure

**Target organs** No specific target organs known.

12. Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment.

**Toxicity** Not regarded as dangerous for the environment.

Acute toxicity - fish EC₅₀, 96 hours: >0.02% %, Pimephales promelas (Fat-head Minnow)

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Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >0.01 %, Daphnia magna

Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

Biological oxygen demand < 0.1 g O<sub>2</sub>/g substance

Chemical oxygen demand < 8.5 g O<sub>2</sub>/g substance

Bioaccumulative potential

Bio-Accumulative Potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: < 3

Mobility in soil

**Mobility** The product is miscible with water and may spread in water systems.

Other adverse effects

Other adverse effects None known.

#### 13. Disposal considerations

#### Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods**Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to

licensed waste disposal site in accordance with the requirements of the local Waste Disposal

Authority.

## 14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

#### **UN Number**

Not applicable.

## UN proper shipping name

Not applicable.

#### Transport hazard class(es)

No transport warning sign required.

## Packing group

Not applicable.

## **Environmental hazards**

## **Environmentally Hazardous Substance**

No

# Special precautions for user

Not applicable.

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Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

## **US Federal Regulations**

#### SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

#### SARA 313 Emission Reporting

Not listed.

#### **CAA Accidental Release Prevention**

Not listed.

## **US State Regulations**

## California Proposition 65 Carcinogens and Reproductive Toxins

This product does not contain any substances known to the State of California to cause cancer, birth defects or other reproductive harm.

## California Air Toxics "Hot Spots" (A-I)

Not listed.

## California Air Toxics "Hot Spots" (A-II)

Not listed.

# Rhode Island "Right To Know" List

Not listed.

# New Jersey "Right To Know" List

Not listed.

## Inventories

# **EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

# Canada - DSL/NDSL

All the ingredients are listed or exempt.

## **US-TSCA**

All the ingredients are listed or exempt.

## Australia - AICS

All the ingredients are listed or exempt.

#### Japan - MITI

All the ingredients are listed or exempt.

## Korea - KECI

All the ingredients are listed or exempt.

## China - IECSC

All the ingredients are listed or exempt.

## Philippines - PICCS

All the ingredients are listed or exempt.

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#### New Zealand - NZIOC

All the ingredients are listed or exempt.

#### 16. Other information

**General information** Only trained personnel should use this material.

**Issued by** Mike Hale Chemist

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Revision 1511

Supersedes date 6/12/2015

**SDS No.** 4529

SDS status Approved.

Hazard statements in full H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Signature Mike Hale

NFPA - instability hazard Normally stable. (0)

ACA HMIS Health rating. Slight hazard. (1)

NFPA - health hazard Irritation, minor residual injury. (1)

NFPA - flammability hazard Will not burn. (0)

ACA HMIS Flammability Will not burn. (0)

rating.

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal protection rating.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.