

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ZOK 27 READY TO USE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning compound, turbine engine gas path. Corrosion inhibitor.

1.3. Details of the supplier of the safety data sheet

Supplier ZOK International Group

Airworthy House Elsted Marsh Midhurst West Sussex GU29 0JT

+44 333 700 2727 zok@zok.com

Manufacturer ZOK International Group

Airworthy House Elsted Marsh Midhurst West Sussex GU29 0JT

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

1.4. Emergency telephone number

Emergency telephone +44 333 700 2727 (Mon-Fri 08:30 - 17:00 GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

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Hazard statements H319 Causes serious eye irritation.

EUH208 Contains Ethanol,2,2'-[[(methyl-1H-benzotriazol-1-yl)methyl]imino]bis-(9Cl). May

produce an allergic reaction.

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.

Detergent labelling < 5% anionic surfactants, < 5% non-ionic surfactants

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Isotridecylalcohol, ethoxylated 1-5%

CAS number: 69011-36-5

Classification

Acute Tox. 4 - H302 Eye Irrit. 2 - H319

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

SECTION 4: First aid measures

4.1. 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.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Vapours may irritate throat/respiratory system. Symptoms following overexposure to vapour

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.

4.3. Indication of any immediate medical attention and special treatment needed

Specific treatments Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

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

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

for firefighters

Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

non-combustible material.

6.3. Methods and material for containment and cleaning up

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

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.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes. Avoid spilling.

7.2. 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.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

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Dipropyleneglycol Methyl Ether

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³ vapour WEL = Workplace Exposure Limit

Triethanolamine (CAS: 102-71-6)

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

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

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

ingredients. Avoid inhalation of vapours 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 vapour filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Characteristic.

Odour threshold Not applicable.

pH 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 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.

Vapour pressure Not relevant.

Vapour density Not relevant.

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Relative density ~ 1.01 @ 20°C

Solubility(ies) Miscible with water.

Partition coefficient log Pow: < 3

Auto-ignition temperature Not relevant.

Auto-ignition temperature Not relevant.

Decomposition Temperature Not applicable.

Viscosity 1.24 cSt @ 20°C

Explosive properties Not considered to be explosive.

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

for classification as oxidising.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 10 g/L. Average VOC content: 8.2 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitisation

Skin sensitisation 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

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

Reproductive toxicity -

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

development

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.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not regarded as dangerous for the environment.

Acute aquatic toxicity

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

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >0.01 %, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria

as laid down in Regulation (EC) No. 648/2004 on detergents. The product is biodegradable

but it must not be discharged into drains without permission from the authorities.

Biodegradation The substance is readily biodegradable.

Biological oxygen demand < 0.1 g O₂/g substance

Chemical oxygen demand < 8.5 g O₂/g substance

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: < 3

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. 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.

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SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations The surfactant(s) contained in this product complies(comply) with the biodegradability criteria

as laid down in Regulation (EC) No. 648/2004 on detergents.

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Guidance Workplace Exposure Limits EH40.

Authorisations (Annex XIV Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

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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 - ENCS

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.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

General information Only trained personnel should use this material.

Classification procedures according to Regulation (EC)

1272/2008

Issued by Craig Appleby - Chemist

Revision date 08/06/2020

Revision 1514

Supersedes date 01/02/2019

SDS number 4529

SDS status Approved.

Hazard statements in full H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Eye Irrit. 2 - H319: Calculation method.

EUH208 Contains Ethanol,2,2'-[[(methyl-1H-benzotriazol-1-yl)methyl]imino]bis-(9Cl). May

produce an allergic reaction.

Signature Craig Appleby

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.