

Safety data sheet

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BASF Safety data sheet Date / Revised: 29.08.2016 Product: Irganox® L 64

Version: 4.0

(30481670/SDS_GEN_SG/EN)

Date of print 30.08.2016

1. Substance/preparation and manufacturer/supplier identification

Irganox® L 64

Use: additives for fuels and lubricants

Manufacturer/supplier:

BASF South East Asia Pte Ltd.
7 Temasek Boulevard,
#35-01 Suntec Tower One, 038987, SINGAPORE

Telephone: +65 6 337-0330 Telefax number: +65 6 334-0330 E-mail address: xinhui.khaw@basf.com

Emergency information:

Singapore Emergency Toll-Free Number:

Telephone: 1800-723-1361 International emergency number: Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:

Hazardous to the aquatic environment - acute: Cat. 3

Label elements and precautionary statement:

Hazard Statement:

Harmful to aquatic life.

Precautionary Statements (Prevention):

Avoid release to the environment.

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Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/information on ingredients

Chemical nature

mixture, aminic antioxidants, phenolic antioxidants

Hazardous ingredients

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Content (W/W): 70 % - 90 % Aquatic Acute: Cat. 3

CAS Number: 68411-46-1

4. First-Aid Measures

General advice:

Remove contaminated clothing.

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Further important symptoms and effects are so far not known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons: water jet

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Specific hazards:

carbon oxides, nitrogen oxides, sulfur oxides, toxic gases/vapours

Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental Release Measures

Personal precautions:

Sources of ignition should be kept well clear. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

Take up mechanically and collect in suitable container (adequately labelled) for disposal. Collect waste in suitable containers, which can be labeled and sealed. Avoid raising dust.

7. Handling and Storage

Handling

Handle and open container with care. Avoid vapor formation. When using do not eat, drink or smoke. Provide good ventilation of working area (local exhaust ventilation if necessary).

Storage

Further information on storage conditions: Segregate from foodstuffs. Keep only in the original container. Keep container tightly closed.

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Storage stability:

Storage temperature: > 0 °C

Protect from temperatures below: 0 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

No occupational exposure limits known.

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Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eve protection:

Safety glasses with side-shields.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and Chemical Properties

Form: liquid

Colour: yellow to brown Odour: characteristic

Odour threshold: No applicable information available.

pH value:

insoluble

Melting point: 0 - 5 °C Boiling point: > 200 °C

Sublimation point:

No applicable information available.

Flash point: 140 °C

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor

pressure.

Flammability (solid/gas): not flammable

Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

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Upper explosion limit:

For liquids not relevant for classification and labelling.

Ignition temperature: 370 °C

Thermal decomposition: > 250 °C Self ignition: not self-igniting

Self heating ability: It is not a substance capable of

spontaneous heating.

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure: 0.001 Pa

(20 °C)

Density: 1.0 g/cm3

(20 °C)

Solubility in water: sparingly soluble Partitioning coefficient n-octanol/water (log Pow):

Study scientifically not justified.

Viscosity, kinematic: 500 - 1,100 mm2/s

(20 - 25 °C)

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

Avoid electro-static discharge.

Thermal decomposition: > 250 °C

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

No hazardous reactions known. Stable under normal conditions.

Hazardous decomposition products:

carbon oxides, nitrogen oxides, sulfur oxides, toxic gases/vapours

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

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LD50 rat (oral): > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

LD50 rat (dermal): > 2,000 mg/kg

The statements are based on the properties of the individual components.

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation rabbit: non-irritant

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:

Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Experimental/calculated data:

guinea pig: Non-sensitizing.

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

Mobility

Assessment transport between environmental compartments:

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The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is expected.

Persistence and degradability

Assessment biodegradation and elimination (H2O): Poorly biodegradable.

Bioaccumulation potential

Assessment bioaccumulation potential:

The product contains components with potential for bioaccumulation

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Dispose of in accordance with national, state and local regulations.

Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

14. Transport Information

Domestic transport:

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Other regulations

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16. Other Information

Unsuitable for use: This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within the human body, is specifically intended, unless the finished product has been tested in accordance with nationally and internationally applicable safety testing requirements. Because of the wide range of such potential uses, we are not able to recommend this material as safe and effective for such uses and assume no liability for such uses.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.