

Safety data sheet

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BASF Safety data sheet
Date / Revised: 29.08.2017
Product: **Irgalube® 8080**

Version: 5.0

(30569184/SDS_GEN_SG/EN)

Date of print 30.08.2017

1. Substance/preparation and manufacturer/supplier identification

Irgalube® 8080

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:

Skin corrosion/irritation: Cat. 2
Serious eye damage/eye irritation: Cat. 1
Skin sensitization: Cat. 1
Reproductive toxicity: Cat. 1B (unborn child)
Hazardous to the aquatic environment - acute: Cat. 2
Hazardous to the aquatic environment - chronic: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:
Danger

Hazard Statement:

Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May damage the unborn child. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

Precautionary Statements (Prevention):

Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Do not handle until all safety precautions have been read and understood. Contaminated work clothing should not be allowed out of the workplace. Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

Store locked up.

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

Preparation based on: lubricant oil additives

Hazardous ingredients

Benzenamine,N-phenyl-,reaction products with 2,4,4-trimethylpentene

Content (W/W): >= 10 % - <= 20 % Aquatic Acute: Cat. 3

CAS Number: 68411-46-1 Aquatic Chronic: Cat. 3

N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine (CAS 80584-90-3, 80595-74-0)

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Content (W/W): $\geq 5\%$ - $\leq 10\%$	Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 2 Skin Sens.: Cat. 1B Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 2
alkyl ether carboxylic acid Content (W/W): $\geq 5\%$ - $\leq 10\%$	Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 1 Aquatic Acute: Cat. 2
Alcohols, C12-16 Content (W/W): $\geq 1\%$ - $\leq 5\%$ CAS Number: 68855-56-1	Skin Corr./Irrit.: Cat. 3 Eye Dam./Irrit.: Cat. 2A Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 1
Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl- Content (W/W): $\geq 10\%$ - $\leq 20\%$ CAS Number: 268567-32-4	Acute Tox.: Cat. 5 (oral) Eye Dam./Irrit.: Cat. 1 Skin Sens.: Cat. 1B Aquatic Acute: Cat. 3
2,5,8,11,14-Pentaoxapentadecane Content (W/W): $\geq 1\%$ - $< 3\%$ CAS Number: 143-24-8	Acute Tox.: Cat. 5 (oral) Repr.: Cat. 2 (fertility) Repr.: Cat. 1B (unborn child)
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs. Content (W/W): $\geq 30\%$ - $\leq 40\%$ CAS Number: 192268-65-8	Repr.: Cat. 2 (unborn child)
1-Naphthalenamine, N-phenyl-ar-(1,1,3,3-tetramethylbutyl)- Content (W/W): $\geq 1\%$ - $\leq 5\%$ CAS Number: 68259-36-9	

4. First-Aid Measures

General advice:

Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

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, dry powder, foam

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Breathing protection required.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

The product in undamaged packing need not be stored separately.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Protect from temperatures above: 60 °C

8. Exposure controls and personal protection

Components with occupational exposure limits

No occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

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.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

Body protection must be chosen based on level of activity and exposure., acid- resp. lye-proof apron, e.g. of rubber (f.e. according to EN 14605), protection boots, f.e. of rubber (e.g. according to EN 20346), acid-proof chemical protection suit (f.e. according to EN 14605)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid
Colour:	yellowish to brown
Odour:	faint specific odour
Odour threshold:	No applicable information available.
pH value:	insoluble
solidification temperature:	< 0 °C (capillary tube method)
Boiling point:	not determined
Flash point:	> 100 °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.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Ignition temperature:	not determined
Thermal decomposition:	No decomposition if correctly stored and handled.
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:	The product has not been tested.	
Density:	1.0547 g/cm ³ (20 °C)	
Solubility in water:	insoluble	
Hygroscopy:	Non-hygroscopic	
Solubility (qualitative) solvent(s):	non-polar solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	Study scientifically not justified.	
Viscosity, kinematic:	8.929 mm ² /s (100 °C)	(DIN 51562)

Other Information:

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

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

Thermal decomposition: No decomposition if correctly stored and handled.

Substances to avoid:

strong oxidizing agents, strong bases, strong acids, water

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

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

Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant. (OECD Guideline 404)

Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:
May cause sensitization by skin contact.

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.

Developmental toxicity

Assessment of teratogenicity:
The substance caused malformations/developmental toxicity in laboratory animals.

Specific target organ toxicity (single exposure):

Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Ecotoxicity

Toxicity to fish:
LC50 (96 h) 10 - 100 mg/l, Fish

Mobility

Assessment transport between environmental compartments:
No data available.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Bioaccumulation potential

Assessment bioaccumulation potential:

The product contains components with potential for bioaccumulation

Additional information

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Domestic transport:

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 1-[N,N-BIS-(2-ETHYL-HEXYL)-AR-METHYL]-BENZOTRIAZOLE-1-METHANAMINE, C12/C16-ALCOHOLS)

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 1-[N,N-BIS-(2-ETHYL-HEXYL)-AR-METHYL]-BENZOTRIAZOLE-1-METHANAMINE, C12/C16-ALCOHOLS)

Air transport

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IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 1-[N,N-BIS-(2-ETHYL-HEXYL)-AR-METHYL]- BENZOTRIAZOLE-1-METHANAMINE, C12/C16-ALCOHOLS)

15. Regulatory Information

Hazard determining component(s) for labelling: 1-[N,N-BIS-(2-ETHYL-HEXYL)AMINO-METHYL]TOLUTRIAZOLE, Bis(2-(2-methoxyethoxy)ethyl) ether, Propanoic acid, 3-[[bis(2-methylpropoxy)phosphinothioyl]thio]-2-methyl-

Other regulations

16. Other Information

Recommended use: additives for fuels and lubricants

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.