

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

IG 1601 / IG 1604 / Cone Oil

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Insulating oil

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

NKT HV Cables AB

Verkövägen 94

371 65 Lyckeby

Sweden

+46 455 55 603

Contact person

Sabina Strand

E-mail

Kemikaliekoordinator@nkt.com

SDS date

2017-12-05

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

2.2. Label elements

Hazard pictogram(s)

Not applicable

Signal word

-

Hazard statement(s)

Not applicable

Safety statement(s)

General -

Prevention -

Response -

Storage -

Disposal -

Identity of the substances primarily responsible for the major health hazards

Not applicable

2.3. Other hazards

Prolonged or repeated skin contact without proper cleaning may clog the pores of the skin, causing discomfort such as oil pain / folliculitis. Use oil may contain harmful impurities. Signs and symptoms of Oil acne / follicles may include the formation of black pimples and dots on the skin in exposed areas.

Ingestion may lead to nausea, vomiting and / or diarrhea.

Additional labelling

Not applicable

Additional warnings

Not applicable

VOC

Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

NAME:	Highly refined mineral oil (mixture)
IDENTIFICATION NOS.:	-
CONTENT:	approx 70%
CLP CLASSIFICATION:	NA

NAME:	Polybutene (Isobutylene/butene copolymer)
IDENTIFICATION NOS.:	CAS-no: 9003-29-6
CONTENT:	approx 30%
CLP CLASSIFICATION:	NA

- The highly refined mineral oils contain <3% (w / w) DMSO extract, according to IP346.
Hygiene limits, if any, are reported in section 8.

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the person into fresh air and stay with him.

Skin contact

Remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material. If any of the following delayed signs and symptoms appear within the 6-hour follow-up, transport to the nearest hospital: fever above 37 ° C, breathlessness, chest tightness, persistent cough or wheezing.

Burns

Not applicable

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

Nothing special

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

Nothing special

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

During combustion the following may be formed: A complex blend of airborne solid and liquid particles and gases (smoke), carbon monoxide, unidentified organic and inorganic compounds. Polybutenes can be depolymerized at temperatures above 200 ° C with the development of highly flammable butene monomers. Vapors may cause fire. Vapors may accumulate in low or closed spaces or be spread a long way to an ignition source and cause re-ignition. Drainage to sewage can create fire or explosion hazard.

5.3. Advice for firefighters

Where open cell insulation has been contaminated with polybutene, spontaneous combustion may occur at temperatures as low as 138°C (280°F). Therefore, where open cell insulation has been used, the temperature of storage tanks and heat tracing must be kept well below 120°C (250°F) and any insulation contaminated with Polybutene should be replaced immediately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapor or mist. Provide good ventilation. Avoid contact with eyes, skin or clothing. The product should be handled so that there is no risk of burns. Spills cause slipping.

6.2. Environmental precautions

Avoid dispersal of spilled material, runoff, contact with soil, streams, drains and sewers.

6.3. Methods and material for containment and cleaning up

Use sand, soil, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Keep away from heat, sparks and flames. To avoid fire or explosion, dispose of static electricity through grounding on containers and equipment prior to transfer material. Use explosion proof electrical / ventilation / lighting / material handling equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store in a secluded and approved, cool, well-ventilated area away from heat, sparks, open flame or any other ignition source. A potentially flammable environment may occur if the material is heated for a long time. For prolonged storage at temperatures of 60° C or higher, keep the mixture in stainless steel containers. For exclusion of oxygen use a nitrogen blanket. Heating systems that create local hot spots should be avoided. Suitable storage materials are: mild steel / carbon steel.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

No data available

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Using oils may contain harmful contaminants that have accumulated during use. The concentration of such contaminants depends on the use and they may pose risks to health and the environment upon disposal. ALL used oils should be handled with caution and skin contact should be avoided as far as possible. When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Not applicable

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Select a combined filter against particles / organic gases and vapors (boiling point > 65 °C) that meets EN141.

Skin protection

No specific requirements.

Hand protection

Wear gloves that cannot be penetrated by chemicals or oil. Recommended: Nitrile rubber.
When handling hot material, wear heat resistant protective gloves.

Eye protection

No specific requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Light brown.
Odour	Almost odorless.
Odour threshold (ppm)	No data available.
pH	Not applicable.
Viscosity, dynamic (40°C) (mPa .s)	approx. 650
Density (g/cm³) (15°C)	approx. 0,906
Phase changes	
Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure (20°C)	<0,01 hPa
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	>200
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

Solubility

Solubility in water	Negligible
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

Polybutenes can be depolymerized at temperatures above 200 ° C and cause development of highly flammable butene monomers.

10.4. Conditions to avoid

Store away from sources of ignition, heat, sparks, open flames. Avoid strong oxidizing conditions. Avoid prolonged exposure to temperatures above 60 ° C in the presence of air.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents. Acidic clays at 100 ° C.

10.6. Hazardous decomposition products

No hazardous decomposition products should occur under normal conditions during storage and use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
*	Rat	LD50	Oral	> 5000 mg/kg
*	Rabbit	LD50	Dermal	> 5000 mg/kg

* The information is based on knowledge of the constituents and toxicology of similar products.

Skin corrosion/irritation

Expected to give light irritation. Prolonged or repeated skin contact without proper cleansing can clog the pores in the skin, causing problems such as oil acne / folliculitis.

Serious eye damage/irritation

Expected to give light irritation.

Respiratory Irritation

Inhalation of vapor or mist may cause irritation.

Respiratory or skin sensitisation

Not expected to be skin sensitizing.

Germ cell mutagenicity

Not considered a mutagenic risk.

Carcinogenicity

The product contains mineral oils of types found to be non-carcinogenic in skin brushing in animal studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). None of the components in this product have been shown to be carcinogenic at levels above 0.1% according to ACGIH, the International Agency for Research on Cancer (IARC) and the European Commission (EC).

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

According to EC-Regulation 1907/2006

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

Nothing special

SECTION 12: Ecological information

Assessment:

The information below is based on knowledge of the constituents and ecotoxicology of similar products.

12.1. Toxicity

Poorly soluble mixture. May cause physical contamination of aquatic organisms.

Expected to be practically non-toxic: LL / EL / IL50 > 100 mg / l (for aquatic organisms) (LL / EL50 expressed as the nominal amount of product required to prepare aqueous sample extracts). Mineral oil is not expected to have any chronic effects on aquatic organisms at concentrations below 1 mg / l.

Substance	Species	Test	Duration	Result
No data available.				

12.2. Persistence and degradability

Inherently biodegradable

Substance	Biodegradability	Test	Result
No data available.			

12.3. Bioaccumulative potential

Can be bioaccumulated.

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

12.4. Mobility in soil

Liquid under normal conditions. Floats on water. In case of ground spillage, the product will be strongly absorbed to soil particles and will therefore not be mobile.

12.5. Results of PBT and vPvB assessment

The product does not contain any known PBT.

12.6. Other adverse effects

Nothing special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by regulations on dangerous waste.

Waste

EWC code

13 08 99*

wastes not otherwise specified

Specific labelling

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Contaminated packing

Packages containing residual products that have not been emptied until they are droplet dry, must be handled as hazardous waste and properly sealed prior to disposal.

Suggested empty packaging: 15 01 02 - Plastic packaging.

Suggestions for packaging with residues: 15 01 10 * - Packages containing residues of or which are contaminated by hazardous substances.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard

-

class(es)

According to EC-Regulation 1907/2006

14.4. Packing group -
Notes -
Tunnel restriction code -

IMDG

UN-no. -
Proper Shipping Name -
Class -
PG* -
EmS -
MP** -
Hazardous constituent -

IATA/ICAO

UN-no. -
Proper Shipping Name -
Class -
PG* -

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

-

Demands for specific education

-

Additional information

Sources

Regulation (EC) No 1272/2008 (CLP).

EC regulation 1907/2006 (REACH).

Hazardous waste Directive 2014/955/EU

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

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The full text of identified uses as mentioned in section 1

-

Additional label elements

Not applicable

Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked

According to EC-Regulation 1907/2006

with a blue triangle.

**Date of last essential change
(First cipher in SDS version)**

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**Date of last minor change
(Last cipher in SDS version)**

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