

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

ES LIQUID

Product no.

7635

REACH registration number

Not applicable

Unique formula identifier (UFI)

-

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

Relevant identified uses of the substance or mixture

Paint remover

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

Distributor:

TAK CARE

Vipvägen 7

74633 Bålsta

+46707880320

Tillverkare:

Trion Tensid AB

Svederusgatan 1-3

754 50 Uppsala

+4618156190

Contact person

Christer Grenbäck

E-mail

info@takcare.se

SDS date

2019-05-08

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

Acute Tox. 4; H302

Skin Irrit. 2; H315

Eye Irrit. 2; H319

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

**Signal word**

Warning

Hazard statement(s)

Harmful if swallowed. (H302)

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

Precautionary statements

General -

Prevention

Wash hands/exposed skin thoroughly after handling. (P264).

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

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

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

Storage -

Disposal

Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

1-butylpyrrolidin-2-one

2.3. Other hazards

Not applicable

Additional labelling

Not applicable

Additional warnings

Not applicable

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients**3.1/3.2. Substances/Mixtures**

NAME: 1-butylpyrrolidin-2-one
 IDENTIFICATION NOS.: CAS-no: 3470-98-2 EC-no: 222-437-8
 CONTENT: 80-95%
 CLP CLASSIFICATION: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2
 H302, H315, H319

NAME: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
 IDENTIFICATION NOS.: CAS-no: 112-34-5 EC-no: 203-961-6
 CONTENT: 5 - <10%
 CLP CLASSIFICATION: Eye Irrit. 2
 H319
 NOTE: L

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

Other information

ATEmix(oral) = 449,944 - 674,916
 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 7,752 - 11,628
 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 7,112 - 10,668

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 0344 892 0111 (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/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin 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) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medic

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

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, 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.

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.

Storage temperature

4 - 25 °C

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

2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67,5 mg/m³
Short-term exposure limit (15-minute reference period): 15 ppm | 101,2 mg/m³

DNEL / PNEC

DNEL (1-butylpyrrolidin-2-one): 2,5 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Short term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 2,5 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 5 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 17,4 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 10 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-butylpyrrolidin-2-one): 70,5 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 67,5 mg/kbm 10 ppm
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 67,5 mg/kbm 10 ppm
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 101,2 mg/kbm
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 20 mg/kg/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

PNEC (1-butylpyrrolidin-2-one): 0,7955 mg/kg
Exposure: Soil
Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 0,6336 mg/kg
Exposure: Marine water sediment
Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 6,336 mg/kg
Exposure: Freshwater sediment
Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 30,62 mg/L

According to EC-Regulation 2015/830

Exposure: Sewage Treatment Plant
Duration of Exposure: Continuous

PNEC (1-butylpyrrolidin-2-one): 1 mg/L
Exposure: Water
Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 0,08 mg/L
Exposure: Marine water
Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 0,8 mg/L
Exposure: Freshwater
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 1 mg/L
Exposure: Freshwater
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 0,1 mg/L
Exposure: Marine water
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 4,4 mg/kg
Exposure: Freshwater sediment
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 0,44 mg/kg
Exposure: Marine water sediment
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 0,32 mg/kg
Exposure: Soil
Duration of Exposure: Single

PNEC (2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether): 200 mg/L
Exposure: Sewage Treatment Plant
Duration of Exposure: Single

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

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



Generally

Use only CE marked protective equipment.

Respiratory Equipment

In the event of insufficient ventilation

Recommended: A. Class 1 (low capacity). Brown

Skin protection

Dedicated work clothing should be worn.

Hand protection

Refer to internal procedure

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Yellow
Odour	Solvent
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,96

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	120-150
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	No data available.
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	Insoluble
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

Shelf life: 24 months.

Shelf life after opening: 18 months

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: >29 ppm (2h)

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
 Species: Rat
 Test: LD50
 Route of exposure: Oral
 Result: 2410 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
 Species: Rabbit
 Test: LD50
 Route of exposure: Dermal
 Result: 2764 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
 Species: Algae
 Test: EC50
 Duration: 96 h
 Result: >100 mg/l

Substance: 1-butylpyrrolidin-2-one
 Species: Fish
 Test: LC50
 Duration: 96 h
 Result: >100 mg/L

Substance: 1-butylpyrrolidin-2-one
 Species: Algae
 Test: EC50
 Duration: 72 h
 Result: 130 mg/L

Substance: 1-butylpyrrolidin-2-one
 Species: Daphnia
 Test: EC50
 Duration: 48 h
 Result: >100 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-(2-butoxyethoxy)ethanol die...	Yes	CO2 Evolution Test	100%
1-butylpyrrolidin-2-one	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
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2-(2-butoxyethoxy)ethanol	No	1	No data available
die...	No	No data available	No data available
1-butylpyrrolidin-2-one	No		

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol die...: Log Koc= 0,8703, Calculated from LogPow (High mobility potential.).

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

Nothing special

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product is covered by the regulations on hazardous waste.

Waste

EWC code

20 01 13* solvents

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

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)	-
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

Not applicable

Seveso

-

Sources

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

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Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

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 with a blue triangle.

The safety data sheet is validated by

MK

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

-

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

-