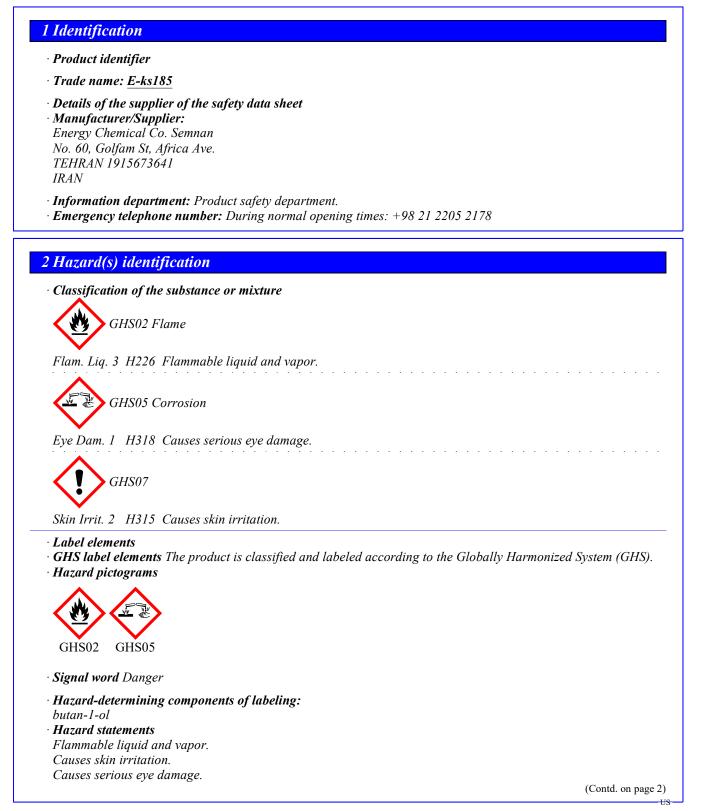


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• Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to a Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If shin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4) HEALTH $\begin{array}{c} 3 \\ \text{Fire} = 2 \\ \text{Reactivity} = 0 \end{array}$ • HMIS-ratings (scale 0 - 4) HEALTH $\begin{array}{c} 3 \\ \text{Fire} = 2 \\ \text{Reactivity} = 0 \end{array}$ • Other hazards • Reactist of PBT and vPvB assessment		
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• Other hazards • Results of PBT and vPvB assessment	REACTIVITY 0	
· Results of PBT and vPvB assessment		
· VPVB: Not applicable.	• vPvB: Not app	licable.
• PB1: Not applicable. • vPvB: Not applicable.	· PBT: Not app	licable.
	3 Composition	n/information on ingredients
3 Composition/information on ingredients		
 3 Composition/information on ingredients • Chemical characterization: Mixtures • Description: Mixture of the substances listed below with nonhazardous additions. 	· Dangerous co	mponents:
	2	1

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4 First-aid measures

- · Description of first aid measures
- *General information: Immediately remove any clothing soiled by the product.*
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- *After skin contact: Immediately wash with water and soap and rinse thoroughly.*
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
71-36-3 butan-1-ol	60 ppm
PAC-2:	
71-36-3 butan-1-ol	800 ppn
(C	ontd. on page



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8000** ppm

• PAC-3:

71-36-3 butan-1-ol

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

71-36-3 butan-1-ol

- PEL Long-term value: 300 mg/m³, 100 ppm
- *REL* Ceiling limit value: 150 mg/m³, 50 ppm Skin
- TLV Long-term value: 61 mg/m³, 20 ppm

• *Additional information:* The lists that were valid during the creation were used as basis.

• Exposure controls

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

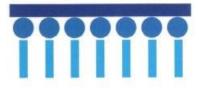
Avoid contact with the skin.

- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.

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· Flash point:

· Flammability (solid, gaseous):

• Decomposition temperature:

· Ignition temperature:

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• Trade name: E-ks185 (Contd. of page 4) · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Colorless Odor: Characteristic · Odor threshold: Not determined. • *pH-value at 20* °*C* (68 °*F*): 6–7 · Change in condition *Melting point/Melting range:* Undetermined. Boiling point/Boiling range: 116–118 °C (240.8–244.4 °F) <50 °C (<122 °F)

> Not applicable. 340 °C (644 °F)

Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	9.4 Vol %
· Vapor pressure at 20 °C (68 °F):	6.7 hPa (5 mm Hg)
· Density at 20 °C (68 °F):	0.9–1 g/cm ³ (7.5105–8.345 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	<20.0 %
VOC content:	<20.00 %
	180–<200 g/l / 1.5–<1.67 lb/gl
Solids content:	>80.0 %
• Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• **Possibility of hazardous reactions** No dangerous reactions known.

• Conditions to avoid No further relevant information available.

• Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

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Acute tox	•	t and valouant for alagsification.
		at are relevant for classification: y Estimate)
Oral	LD50	>3,950 mg/kg (rat)
Dermal	LD50	>17,000 mg/kg (rabbit)
71-36-3 L	outan-1-ol	
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalatin		
Primary on the sk on the ey Sensitizat	irritant effo in: Irritant e: Strong in tion: No se	to skin and mucous membranes. ritant with the danger of severe eye injury. nsitizing effects known.
Primary on the sk on the ey Sensitizat Additiond	irritant effe in: Irritant e: Strong in tion: No se al toxicolog	ect: to skin and mucous membranes. rritant with the danger of severe eye injury.
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12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

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• Results of PBT and vPvB assessment

• *PBT*: Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

• Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• *Recommendation: Disposal must be made according to official regulations.*

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
DOT, IMDG, IATA	UN1120	
UN proper shipping name		
DOT	Butanols solution	
IMDG, IATA	BUTANOLS solution	
Transport hazard class(es)		
DOT		
P.AMMARE LOUG		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	III	
Environmental hazards:	Not applicable.	

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	(Contd. of pag
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F- E , S - D
· Stowage Category	A
• Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
·IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1120 BUTANOLS SOLUTION, 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

All ingredients are listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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Safety Data Sheet acc. to OSHA HCS

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D

· Carcinogenic categories

· EPA (Environmental Protection Agency)

71-36-3 butan-1-ol

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: butan-1-ol · Hazard statements Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. *Use explosion-proof electrical/ventilating/lighting/equipment.* Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Printing date 03/11/2025

Reviewed on 03/11/2025

· Trade name: E-ks185

16 Other information

(Contd. of page 10)

	on our present knowledge. However, this shall not constitute a guarantee for an I shall not establish a legally valid contractual relationship.
Department issuing SDS: P Contact:	roduct safety department.
-	
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Date of preparation / last re	
Abbreviations and acronym	
Carriage of Dangerous Goods by I	nsport des marchandises dangereuses par Route (European Agreement concerning the Internation
IMDG: International Maritime Co	
DOT: US Department of Transport	
IATA: International Air Transport	
1	Governmental Industrial Hygienists
	xisting Commercial Chemical Substances
ELINCS: European List of Notified	Chemical Substances
	division of the American Chemical Society)
NFPA: National Fire Protection A	
HMIS: Hazardous Materials Ident	
VOC: Volatile Organic Compound	
LC50: Lethal concentration, 50 pe	rcent
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative	and Touis
vPvB: very Persistent and very Bio	
NIOSH: National Institute for Occ	
OSHA: Occupational Safety & Hed	1 0 5
TLV: Threshold Limit Value	***
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Lim	it
Flam. Liq. 3: Flammable liquids -	Category 3
Skin Irrit. 2: Skin corrosion/irritat	
Eye Dam. 1: Serious eye damage/e	ye irritation – Category 1

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