

according to UK REACH Regulation

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Revision date: 12.12.2022

Product code: j5509_sd

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

1.1. Product identifier

Frigosan

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

A8-LIU 48/49 - KIZAD

Use of the substance/mixture

Product for professional cleaning and maintenance

1.3. Details of the supplier of	the safety data sheet			
Company name:	JOHANNES	KIEHL KG		
Street:				
Place:	D-85235 Odelzha	usen		
Telephone:	+49 8134 9305-0		Telefax: +49 8134 6466	
E-mail:	info@kiehl-group.	com		
Contact person:	Laboratory depart	ment		
Internet:	www.kiehl-group.o	com		
Responsible Department:	Notrufnummer für	deutsch- und englischsprachi	ge Länder: +49/89/19240	
	Vergiftungsinform	ationszentrale (VIZ) Österreic	h: +43 1 406 43 43	
	Nationale Notrufn	ummer für die Schweiz (Tox-Z	Zentrum Zürich): 145	
	Numéro d'urgen	ce France: INRS: +33 (0) 1 4	5 42 59 59	
	Numero d' emerge	enza Italia: Centro Antiveleni -	20162 Milano: 02/66101029	
	ETTSZ /Egészség	jügyi Toxikológiai Tájékoztató	Szolgálat/, 1096 Budapest,	
	Nagyvárad tér 2. l	Ügyeleti telefonszám: +36 80	201-199	
	Eesti: Häirekesk	use number: 112 / Mürgistuste	eabekeskuse number: 16662	
	Emergency teleph	one number for all other cour	tries: +49/8134/9305-169	
KIEHL Austria GmbH	Perfektastr. 57;	A-1230 Wien	Tel. +43 (0) 1 / 604 99 93	
KIEHL FRANCE S.A.R.L.	5, rue de Londres;	F-67670 Mommenheim	Tél. +33 (0) 3.88.59.52.25	
KIEHL Italia s.r.l.	Via San Rocco, 101;	I-16036 Recco (GE)	Tel. +39 / 0185 730 008	
KIEHL Schweiz AG	St. Dionys-Str. 33;	CH-8645 Jona	Tel. +41 (0) 55 / 254 74 74	
KIEHL Hungary Kft.	Felsöipari körút 3/ D	HU-2142 Nagytarcsa	Tel. +36 (0) 1 / 348-08 41	

1.4. Emergency telephone

KIEHL Middle East LLC

+49/89/19240 (germanophone and anglophone) For Belgium: +32 70 245 245 (free, 24/7) or +32 2 264 96 30 (normal rate)

Tel. +971 2 550 33 96

Abu Dhabi, U.A.E.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not required

2.2. Label elements

Additional advice on labelling

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

according to 648/2004/CE: nonionic surfactants <5%, water-soluble solvents, dyes

number:



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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)		
64-17-5	ethanol; ethyl alcohol			10 - < 15 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2; H225			
69011-36-5	i-C13-Fatty alcohol polyglycol ethe	rs 5-12 EO		1 - < 5 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H	318		

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	No Chemical name	
Specific Conc. Limits, M-factors and ATE			
69011-36-5	931-138-8	i-C13-Fatty alcohol polyglycol ethers 5-12 EO	1 - < 5 %
	oral: ATE = 500) mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 6 - < 10	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No hazards which require special first aid measures.

After inhalation

not hazardous by inhalation

After contact with skin

Wash off with plenty of water.

After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible. Consult a physician if necessary.

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

This information is not available.

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Any extinguishing means and measures are acceptable.

5.2. Special hazards arising from the substance or mixture

This information is not available.

5.3. Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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General advice

Not required.

For non-emergency personnel

No special measures are necessary.

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated articles and floor according to the environmental legislation.

Other information

Never return spills in original containers for re-use.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special precautions required.

Advice on protection against fire and explosion

When using do not smoke. Keep away from open flames, hot surfaces and sources of ignition.

Advice on general occupational hygiene

General industrial hygiene practice. No special protective equipment required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store at room temperature in the original container. Keep away from direct sunlight. Store in a place accessible by authorized persons only.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep away from heat and sources of ignition. Keep container tightly closed.

Never return unused material to storage receptacle.

7.3. Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

8.2. Exposure controls



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Appropriate engineering controls

Not required.

Individual protection measures, such as personal protective equipment

Skin protection

Not required

Respiratory protection

Not required

Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	blue		
Odour:	alcoholic		
			Test method
Melting point/freezing point:		<-25 °C	
Boiling point or initial boiling point and		>78 °C	
boiling range:			
Flammability:		not applicable	
Lower explosion limits:		not applicable	
Upper explosion limits:		not applicable	
Flash point:		42 °C	
Auto-ignition temperature:		not determined	
Decomposition temperature:		not determined	
pH-Value (at 20 °C):		approx. 8,0	K-QP1012C
Viscosity / kinematic:		not determined	
Water solubility:		completely miscible	
(at 20 °C) Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:		not determined	
Vapour pressure:		not determined	
Density (at 20 °C):			K-QP1012E
Relative vapour density:		not determined	
Particle characteristics:		not applicable	
9.2. Other information			
Information with regard to physical haz	ard classes		
Explosive properties			
Not explosive			
Sustaining combustion:		Not sustaining combustion	
Self-ignition temperature		nat annliachta	
Solid: Gas:		not applicable	
Oxidizing properties		not applicable	
Not relevant			
Other safety characteristics			
Evaporation rate:		not determined	
Solid content:		not determined	
Sublimation point:		not applicable	
Softening point:		not applicable	



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Pour point:	not applicable	
Viscosity / dynamic:	not determined	

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flow time:

This information is not available.

10.2. Chemical stability

This information is not available.

10.3. Possibility of hazardous reactions

This information is not available.

10.4. Conditions to avoid

Do not expose to temperatures above 30 °C.

10.5. Incompatible materials

This information is not available.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Do not mix with other detergents or chemicals.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69011-36-5	i-C13-Fatty alcohol polyg	ycol ethers 5-12 EO		-	
		ATE 500 mg/kg			

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards



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Endocrine disrupting properties This information is not available.

Further information

Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. The surfactants in the product meet all requirements of the detergents regulation 648/2004/EC.

12.3. Bioaccumulative potential

This information is not available.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

This information is not available.

Further information

070699

Chemical Oxygen Demand (COD) 1072mg O2 / g

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not dispose of waste into sewer.

List of Wastes Code - residues/unused products

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

List of Wastes Code - used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Clean container with water. Return cleaned containers to the company for recycling. Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	not applicable
14.2. UN proper shipping name:	not applicable
14.3. Transport hazard class(es):	not applicable
14.4. Packing group:	not applicable
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	



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Not required

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40

National regulatory information

1 - slightly hazardous to water

15.2. Chemical safety assessment

Water hazard class (D):

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 3 / 6 / 7 / 8 / 12



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Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration. Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMFL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Flam. Lig: Flammable liquids Acute Tox: Acute toxicity Eye Dam: Eye damage Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H318	Causes serious eye damage.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)