

Klüberlub NH1 11-222

Mehrzweckschmierstoff für die Lebensmittel- und Pharmazeutische Industrie



Vorteile für Ihre Anwendung

- **Sortenreduzierung möglich aufgrund der vielseitigen Anwendbarkeit**
- **Durch gute Wasserbeständigkeit besserer Oberflächenschutz als mit herkömmlichen Lithium-Fetten der Klasse EP 2**
- **NSF-H1 Registrierung zur Erhöhung Ihrer Prozesszuverlässigkeit**
- **Zertifiziert nach ISO 21469 – unterstützt die Einhaltung der Hygieneanforderungen in Ihrem Herstellbetrieb. Weitere Informationen zu der ISO-Norm 21469 finden Sie auf unserer Website www.klueber.com**

Beschreibung

Klüberlub NH1 11-222 ist ein Schmierfett auf Basis eines paraffinischen Mineralöls und einer Aluminium-Komplexeife und ist NSF H1 registriert. Somit ist es konform mit FDA CFR 21 § 178.3570.

Klüberlub NH1 11-222 ist beständig gegen Wasser und Heißwasser.

Klüberlub NH1 11-222 ist NSF H1 registriert und damit konform mit FDA 21 CFR § 178.3570. Der Schmierstoff wurde für den unvorhersehbaren Kontakt mit Produkten und Verpackungen in der Lebensmittel-, Kosmetik-, Arzneimittel- oder Tierfutterindustrie entwickelt. Die Verwendung von Klüberlub NH1 11-222 leistet dabei einen Beitrag zur Erhöhung der Zuverlässigkeit Ihrer Produktionsprozesse. Wir empfehlen jedoch zusätzlich eine Risikoanalyse, z.B. HACCP, durchzuführen.

Anwendungsgebiete

In Maschinen und Anlagen der Lebensmittel- und Pharmazeutischen Industrie, insbesondere in Anwendungen, bei denen unbeabsichtigter Kontakt mit dem Lebensmittel nicht ausgeschlossen werden kann.

Typische Anwendungen sind z.B. in Wälz- und Gleitlagern, Hubzylindern, Gelenken, Führungsstangen und -schielen, Kurvenscheiben, Dichtungen, etc.

Anwendungshinweise

Klüberlub NH1 11-222 wird mit Pinsel, Spatel, Fettpresse oder Fettpatrone aufgetragen.

Vor der Befettung mit Klüberlub NH1 11-222 sind alle Schmierstellen gründlich zu reinigen, um einen hygienisch einwandfreien H1-Schmierzustand herzustellen.

Ist aus produktionstechnischen Gründen eine Reinigung nicht möglich, kann Fettaustausch durch Nachschmierung erfolgen.

Bei der Überprüfung der Mischbarkeit des Fettes sowie der Festlegung von Nachschmierverfahren unterstützen wir Sie gerne.

Dieses Produkt ist auch in unserem automatischen Schmierstoffgeber Klübermatic erhältlich. Bitte kontaktieren Sie unsere Experten von Klüber Lubrication für eine anwendungstechnische Beratung, ob Klübermatic bei ihren Prozessbedingungen in Frage kommt.

Sicherheitsdatenblätter

Die aktuellen Sicherheitsdatenblätter können Sie auf unserer Website www.klueber.com anfordern. Sie sind ebenfalls über Ihren persönlichen Ansprechpartner erhältlich.

Gebinde	Klüberlub NH1 11-222
Dose Weißblech Innenbeschichtung 1 kg	+
Hobbock Polyethylen (HDPE) 25 kg	+
Kartusche PA 6 Klübermatic FLEX 125 ml	+



Klüberlub NH1 11-222

Mehrweckschmierstoff für die Lebensmittel- und Pharmazeutische Industrie

Produktkenndaten	Klüberlub NH1 11-222
Artikel-Nr.	096090
NSF-H1 Registrierungsnummer	137 536
Chemischer Aufbau, Konsistenzgeber	Al-Komplexseife
Chemischer Aufbau, Ölart	Paraffin. Mineralöl
untere Gebrauchstemperatur	-15 °C / 5 °F
obere Gebrauchstemperatur	100 °C / 212 °F
Farbraum	gelb
Struktur	homogen
Walkpenetration, DIN ISO 2137, 25°C, unterer Grenzwert	265 x 0,1 mm
Walkpenetration, DIN ISO 2137, 25°C, oberer Grenzwert	295 x 0,1 mm
NLGI-Klasse, DIN 51818	2
Tropfpunkt, DIN ISO 2176, IP 396	>= 220 °C
Wasserbeständigkeit, DIN 51807 T01, 3h/90°C, Bewertungsstufe	<= 1 - 90
Mindestlagerdauer ab Herstellung - bei Lagerung in trockenen, frostfreien Räumen und original verschlossenen Gebinden ca.	24 Monate

Klüber Lubrication – your global specialist

Unsere Leidenschaft sind innovative tribologische Lösungen. Durch persönliche Betreuung und Beratung helfen wir unseren Kunden, erfolgreich zu sein – weltweit, in allen Industrien, in allen Märkten. Mit anspruchsvollen ingenieurtechnischen Konzepten und erfahrenen, kompetenten Mitarbeiterinnen und Mitarbeitern meistern wir seit über 80 Jahren die wachsenden Anforderungen an leistungsfähige und wirtschaftliche Spezialschmierstoffe.

**Klüber Lubrication München SE & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Deutschland /
Telefon +49 89 7876-0 / Telefax +49 89 7876-333.**

Die Angaben in diesem Dokument basieren auf unseren allgemeinen Erfahrungen und Kenntnissen zum Zeitpunkt der Veröffentlichung. Sie sollen dem technisch erfahrenen Leser Hinweise für mögliche Anwendungen geben. Die Angaben beinhalten jedoch keine Zusicherung von Eigenschaften und keine Garantie der Eignung des Produkts für den Einzelfall. Sie entbinden den Anwender nicht davon, das ausgewählte Produkt vorher in der Anwendung zu testen. Alle Angaben sind Richtwerte, die sich am Schmierstoffaufbau, am vorgegebenen Einsatzzweck und an der Anwendungstechnik orientieren. Schmierstoffe ändern je nach Art der mechanischen, dynamischen, chemischen und thermischen Beanspruchung druck- und zeitabhängig ihre technischen Werte. Diese Veränderungen können Einfluss auf die Funktion von Bauteilen nehmen. Wir empfehlen grundsätzlich ein individuelles Beratungsgespräch und stellen auf Wunsch und nach Möglichkeit gerne Proben für Tests zur Verfügung. Klüber Produkte werden kontinuierlich weiterentwickelt. Deshalb behält sich Klüber Lubrication das Recht vor, alle technischen Daten in diesem Dokument jederzeit und ohne Vorankündigung zu ändern.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date last verification : 2020-02-10
Revision date : 2020-02-10
Issue date : 2017-08-14

Version : 9.0

Indication of changes : §3 - §4.1 - §4.2 - §5.1 - §5.3 - §6.1 - §6.3 - §7.1 - §7.2 - §8.2 - §10.6 - §11.1 - §13.1

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

1.1. Product identifier

Safety Data Sheet : 33161
Product code : 4219 460 17941
Product name: : KLUEBERLUB NH1 11-222

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

Relevant identified uses : No information available.
Uses advised against : No information available.

1.3. Details of the supplier of the safety data sheet

Supplier : KLUEBER
POSTBUS 111
1400 AC BUSSUM
Netherlands
Telephone : 035-6951464
Responsible for the compilation of the SDS on behalf of the supplier/ manufacturer : hazcom@philips.com

1.4. Emergency telephone number

Emergency telephone number (regarding transport of DG) : +31 (0)497-598315

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazardous to the aquatic environment - long-term Category 3 H412

2.1.2. Additional information

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

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms : none

Signal word : none

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container according to local hazardous waste disposal regulations.

Hazardous ingredients : not applicable

Remarks on labelling : The supplier may give a different label (User label).

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixture

Substance name	CAS No.	EC No.	REACH No.	Concentration (%)	Classification according to Regulation (EC) No 1272/2008 [CLP]
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-	95-38-5	202-414-9	01-2119777867-13 01-2120768426-45	≥0.25 - <1.0	GHS05 GHS07 GHS08 GHS09 H302 Acute Tox. 4 H314 Skin Corr. 1B H373 STOT RE 2 H400 Aquatic Acute 1 H410 Aquatic Chronic 1
OLEOYL SARCOSINE, N-	110-25-8	203-749-3		≥0.25 - <1.0	GHS05 GHS07 GHS09 H315 Skin Irrit. 2 H318 Eye Dam. 1 H332 Acute Tox. 4 H400 Aquatic Acute 1 H410 Aquatic Chronic 1
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	128-37-0	204-881-4	01-2119480433-40 01-2119555270-46 01-2119565113-46	≥0.1 - <0.25	GHS09 H400 Aquatic Acute 1 H410 Aquatic Chronic 1

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- General information** : No special measures are necessary. When in doubt or if symptoms are observed, get medical advice. In the case of contact with hot melt, treat skin with: Rinse immediately carefully and thoroughly with eye-bath or water. Do not use force or solvents to remove product incrustations from affected skin areas. Call a physician immediately.
- Following inhalation** : No special measures are necessary.
- Following skin contact** : No special measures are necessary. In case of skin irritation, consult a physician.
- After eye contact** : No special measures are necessary. When in doubt or if symptoms are observed, get medical advice.
- Following ingestion** : No special measures are necessary.
- Self-protection of the first aider** : No special measures are necessary.

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

Adverse human health effects and symptoms / Organs affected:

Under normal conditions of use no symptoms and effects are to be expected. However, deviation of the intended use may result in the following symptoms dependent on the route of exposure:

- Following inhalation** : Prickling sensation. May cause: sore throat
- Following skin contact** : Prickling sensation. May cause: redness
- After eye contact** : Prickling sensation. May cause: redness
- Following ingestion** : Prickling sensation. May cause: sore throat

Further information: SECTION 11: Toxicological information

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

- Notes for the doctor** : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media** : Fire class B: - Carbon dioxide (CO₂). - Dry extinguishing powder. - Foam.
- Unsuitable extinguishing media** : Wet chemical. - Water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

- In case of fire may be liberated** : Carbon monoxide - Nitrogen oxides (NO_x) - aluminium oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Flame-retardant protective clothing.

5.4. Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protection equipment.

6.1.1. For non-emergency personnel

Protective equipment : Personal protection equipment: see section 8

Emergency procedures : not applicable.

6.1.2. For emergency responders

Personal protection equipment : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.3.2. For cleaning up

Take up mechanically. Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.3.3. Other information

not determined

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling : Do not get in eyes, on skin, or on clothing.

Measures to prevent fire : The product is not:Flammable.

Measures to prevent aerosol and dust generation : Not dust explosive.

Environmental precautions : Avoid release to the environment.

Advices on general occupational hygiene : When using do not eat, drink, smoke, sniff.Take off contaminated clothing.Wash hands before breaks and after work.

Further information : No information available.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Keep/Store only in original container. Keep container tightly closed. - Store in a cool dry place. - Store in a well-ventilated place.

storage temperature : No information available.

Requirements for storage rooms and vessels : No information available.

Storage class : No information available.

Materials to avoid : No information available.

Further information on storage conditions : No information available.

7.3. Specific end use(s)

Recommendation : not applicable

Industrial sector specific solutions : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Substance name	Limit value	Germany		France		Austria		Belgium	
		mg/m ³	ppm						
OLEOYL SARCOSINE, N-		(respirable dust)							
	8 hour(s)	0.05							
	15 minutes	0.1							
	C								
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	8 hour(s)	10		10		10		2	
	15 minutes	40							
	C								

Substance name	Limit value	Switzerland		Spain		United Kingdom		Portugal	
		mg/m ³	ppm						
OLEOYL SARCOSINE, N-		(inhalable dust)							
	8 hour(s)	0.1							
	15 minutes	0.2							
	C								
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	8 hour(s)	10		10		10		2	
	15 minutes	40				30			
	C								

Substance name	Limit value	Russia							
		mg/m ³	ppm						
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-		(Vapour)							
	8 hour(s)	0.1							
	15 minutes								
	C								

Source : SUVA, Dutch Health Council, 2006/15/EC, 2004/37/EC, LOLI DB, 2000/39/EC, GWBB/VLEP, Gestis, 91/322/EEC, 2017/164/EU, INRS (Fr), TRGS 905, TRGS 910, Austrian OEL Regulation, Dutch Social-Economic Council (SER), US OSHA, EU OSHA, TRGS 900, ACGIH®, 2009/161/EU

20 °C, 1013 mbar: European Union / China / South Korea

25 °C, 1013 mbar: United States / Canada / Japan

[X]: appraisal period x minutes

C: peak limitation

H: skin resorptive

S: Statutory threshold limit value

ALARA: As low as reasonably achievable (ALARA principle).

Remark Occupational exposure limit values

none

DNEL (Derived No Effect Level (DNEL-value))

Substance name	Exposure route	DNEL worker			
		systemic		local	
		long-term	short-term	long-term	short-term
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-	oral [mg/kg bw/day]	Not required.			
	Inhalation [mg/m ³] 20	0.46	14		
	dermal [mg/kg bw/day]	0.06	2		
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	oral [mg/kg bw/day]	Not required.			
	Inhalation [mg/m ³] 10	3.5			
	dermal [mg/kg bw/day]	0.5			

PNEC (Predicted No Effect Concentration (PNEC-value))

Substance name	aquatic, freshwater [mg/L]	aquatic, marine water [mg/L]	aquatic, intermittent release [mg/L]	sewage treatment plant [mg/L]	sediment, freshwater [mg/kg sediment dw]	sediment, marine water [mg/kg sediment dw]	soil [mg/kg soil dw]
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-	0.00003	0.000003	0.0003	0.27	0.376	0.0376	0.075

Substance name	aquatic, freshwater [mg/L]	aquatic, marine water [mg/L]	aquatic, intermittent release [mg/L]	sewage treatment plant [mg/L]	sediment, freshwater [mg/kg sediment dw]	sediment, marine water [mg/kg sediment dw]	soil [mg/kg soil dw]
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	0.000199	0.00002	0.00199	0.17	0.0996	0.00996	0.04769

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Safe handling: see section 7

8.2.2. Personal protection equipment

Eye/face protection : Eye glasses with side protection.

Skin protection

Hand protection : Suitable gloves type: Butyl caoutchouc (butyl rubber). NBR (Nitrile rubber).

Body protection : Overall, Apron, Boots, goggles.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No further relevant information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste
Colour	: yellow
Odour	: No information available.
Odour threshold	: No information available.
pH	: No information available.
Melting point/freezing point	: No information available.
Initial boiling point and boiling range	: No information available.
Flash point	: No information available.
Evaporation rate	: No information available.
flammability	: No information available.
Upper/lower flammability or explosive limits	
Upper explosion limit	: No information available.
Lower explosion limit	: No information available.
Vapour pressure	: not applicable
Vapour density	: No information available.
Relative density	: 0.92 (water=1) (20 °C)
Solubility(ies)	
Water	: practically insoluble

Partition coefficient n-octanol/water

HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL,:	>6 - Source: GESTIS
2-(2-OLEOYL SARCOSINE, N-	: 6.82 - Source: GESTIS
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	: 5.1 - Source: ECHA

Auto-ignition temperature	: No information available.
Decomposition temperature	: No information available.
Viscosity	: No information available.
Explosive properties:	: not applicable
Oxidising properties	: not applicable

9.2. Other information

Critical temperature Tc	: not applicable
Fat solubility	: No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

10.5. Incompatible materials

Oxidising substances

10.6. Hazardous decomposition products

No known hazardous decomposition products. - Decomposition products in case of fire: see section 5.

10.7. Additional information

No information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Following ingestion : No
Skin contact : No
Inhalation : No

Substances	Dose / Concentration	Value	Species	Exposure time	Method
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-					
oral	LD50:	1.265 g/kg	Rat		OECD 401
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL					
oral	LD50:	>6000 mg/kg	Rat		OECD 401
dermal	LD50:	>2000 mg/kg	Rat		OECD 402

Skin corrosion/irritation : not applicable

Serious eye damage/eye irritation : not applicable

Respiratory or skin sensitisation : not applicable

Germ cell mutagenicity : not applicable

Carcinogenicity : not applicable

Reproductive toxicity : not applicable

STOT-single exposure : not applicable

STOT-repeated exposure : not applicable

Aspiration hazard : not applicable

Symptoms

Following inhalation : Prickling sensation. May cause:, sore throat

Following skin contact : Prickling sensation. May cause:, redness

After eye contact : Prickling sensation. May cause:, redness

Following ingestion : Prickling sensation. May cause:, sore throat

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Acute (short-term) fish toxicity	Acute (short-term) toxicity to crustacea	Acute (short-term) toxicity to algae and cyanobacteria	Toxicity to other aquatic plants/organisms
HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL, 2-(2-	LC50: 0.3 mg/L 96 hour(s) Fish - Source: ECHA - Method: OECD 203	EC50: 0.163 mg/L 48 hour(s) Daphnia - Source: ECHA - Method: OECD 202		
2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL	LC50: 1.1 mg/L 96 hour(s) Fish - Source: ECHA - Method: OECD 203	EC50: 0.48 mg/L 48 hour(s) Daphnia - Source: ECHA - Method: OECD 202	IC50: >0.24 mg/L 72 hour(s) Algae - Source: ECHA - Method: OECD 201	

12.2. Persistence and degradability

Biodegradation

HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL.: none - Source: ECHA - Method: OECD 301B

2-(2-

2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL : Not readily biodegradable (according to OECD criteria) - Source: ECHA

Chemical oxygen demand (COD)

: No information available.

Biochemical oxygen demand

: No information available.

BOD5/COD ratio

: No information available.

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)

2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL : 598.4 - Source: ECHA

Partition coefficient n-octanol/water

HEPTADEC-8-ENYL-2-IMIDAZOLIN-1-YL) ETHANOL.: >6 - Source: GESTIS

2-(2-

OLEOYL SARCOSINE, N- : 6.82 - Source: GESTIS

2,6-DI-TERTIARY-BUTYL-4-METHYLPHENOL : 5.1 - Source: ECHA

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

12.7. Additional ecotoxicological information

Observe local regulations concerning effluent treatment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Other disposal recommendations : not applicable

SECTION 14: Transport information

14.1. UN number

No dangerous good in sense of these transport regulations.

14.2. UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3. Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4. Packing group

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

No dangerous good in sense of these transport regulations.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information

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

International regulations:

Minamata Convention on Mercury : not applicable

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
not applicable

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH:

not applicable

Overall Assessment on CMR properties

according to Regulation (EC) No. 1907/2006 (REACH) : not applicable

Regulation (EC) No 850/2004 [POP-Regulation]

not applicable

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer.

not applicable

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

Additional information

none

Relevant H-phrases (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ACGIH®	American Conference of Governmental Industrial Hygienists
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
BuAc	n-Butyl acetate
CAS	Chemical Abstracts Service
CCID	New Zealand Chemical Classification and Information Database
DSL	Canada Domestic Substances List
ECHA-RAC	ECHA Committee for Risk Assessment
EFSA	European Food Safety Authority
EHSP	OECD Environment, Health, and Safety Publication
EmS	Emergency Schedule
EU-CLH	European Union Harmonised Classification and Labelling
GESTIS	Databases on hazardous substances of the German Social Accident Insurance
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
GWBB-VLEP	Grenswaarden voor beroepsmatige blootstelling/Valeurs limites d'exposition professionnelle

HHS	U.S. Department of Health and Human Services
HSDB	Hazardous Substances Data Bank
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INRS	French National Research and Safety Institute for the Prevention of Occupational Accidents and Diseases
JP-GHS	Japan GHS Basis for Classification Data
KHC	Known human carcinogens.
LEL	Lower explosion limit
LOLI	LOLI (List of Lists) Database
n.a.	not applicable
NDSL	Canada Non-domestic Substance List
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme
NIER	South Korea National Institute of Environmental Research Evaluations
NLM	United States National Library of Medicine
NTP	National Toxicology Program
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
OSHA	Occupational Safety & Health Administration
OUE	European Odour Unit
RAHC	Reasonably Anticipated Human Carcinogen
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCOEL	Scientific Committee on Occupational Exposure Limits (EU)
SIDS	OECD Screening Information Data Sets
SUVA	Swiss Accident Insurance Fund
TRGS	Technische Regeln für Gefahrstoffe
TSCA	The Toxic Substances Control Act Chemical Substance Inventory
TWA	Time Weighted Average
UEL	Upper explosion limit
UN	United Nations
US-EPA	United States Environmental Protection Agency

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