

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 1 of 14

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Further trade names

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

UFI: ASAP-26DN-NX09-FR2F

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

Cleaning agent
Ultrasonic Non-Ammoniated Clock Cleaning Solution
Reserved for industrial and professional use.

Uses advised against

Only use for the intended purpose.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: L&R Manufacturing Company
Street: 577 Elm Street, P.O. Box 607
Place: Kearny, NJ 07032-0607 USA

Supplier

Company name: Beco Technic GmbH
Street: Hermsdorfer Straße 5
Place: D-21502 Geesthacht
Telephone: +49 4152 80960
e-mail (Contact person): service@beco-technic.com
Internet: <http://www.beco-technic.com>

1.4. Emergency telephone number: Giftnotrufzentrale Nord: Aus dem Ausland / From abroad: +49 551-19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226
Acute Tox. 4; H332
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H336
STOT RE 1; H372
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 2 of 14

Hazard components for labelling

stoddard solvent
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
propan-1-ol
2-aminoethanol
2,2'-iminodiethylamine

Signal word: Danger

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with national disposal regulations.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 3 of 14

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified			60-70 %
	232-489-3	649-345-00-4	01-2120261965-45	
	Flam. Liq. 3, Skin Irrit. 2, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H226 H315 H372 H304 H412			
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			15-25 %
	920-750-0		01-2119473851-33	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411 EUH066			
2807-30-9	2-(propyloxy)ethanol; EGPE			1-5 %
	220-548-6	603-095-00-2		
	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2; H226 H312 H319			
71-23-8	propan-1-ol; n-propanol			1-5 %
	200-746-9	603-003-00-0		
	Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336			
141-43-5	2-aminoethanol; ethanolamine			1-4 %
	205-483-3	603-030-00-8		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H332 H312 H302 H314 H318 H317 H335 H412			
111-40-0	2,2'-iminodiethylamine; diethylenetriamine			<1 %
	203-865-4	612-058-00-X		
	Acute Tox. 2, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3; H330 H312 H302 H314 H318 H317 H335			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
2807-30-9	220-548-6	2-(propyloxy)ethanol; EGPE	1-5 %
		dermal: ATE = 1100 mg/kg	
141-43-5	205-483-3	2-aminoethanol; ethanolamine	1-4 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg STOT SE 3; H335: >= 5 - 100	
111-40-0	203-865-4	2,2'-iminodiethylamine; diethylenetriamine	<1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 1045 mg/kg; oral: LD50 = 1553 mg/kg	

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aromatic hydrocarbons, 15 % - < 30 % aliphatic hydrocarbons.

Further Information

stoddard solvent; Low boiling point naphtha - unspecified: Note P

The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301+P310-P331 shall apply.

2-aminoethanol; ethanolamine: skin sens. 1; H317 - Classification procedure : according to TGRS 907 in Germany

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 4 of 14

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing. Call a physician immediately.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

Do NOT induce vomiting.

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately. Aspiration hazard.

Caution if victim vomits: Risk of aspiration!

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

May be fatal if swallowed and enters airways.

Already the smallest quantities that enter the lungs during ingestion or subsequent vomiting, can lead to pulmonary edema or pneumonia.

The following symptoms may occur: diarrhea. Nausea.

Causes severe skin burns and eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). BC powder. ABC powder. Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapour. Concentrated vapours are heavier than air. Vapours may form explosive mixtures with air.

Closed containers may burst when pressure and temperature rise

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

Irritating/poisonous gasses and vapours

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow to enter into surface water or drains. Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 5 of 14

General advice

Do not breathe fume/gas/mist/vapours/spray. Provide adequate ventilation.
 Keep away from sources of ignition - No smoking.
 Use explosion-proof equipment. Use non-sparking tools.
 Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). (caution, fire hazard)
 Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7
 Personal precautions: refer to section 8
 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe fume/gas/mist/vapours/spray. Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing.
 Wear personal protection equipment.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
 Use explosion-proof equipment. Use non-sparking tools. Ground and bond container and receiving equipment.

Advice on general occupational hygiene

Change contaminated clothing. Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and after work. When using do not eat or drink. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Keep locked up.
 storage temperature: 3,9°C -37,8°C

Further information on storage conditions

Keep away from heat.

7.3. Specific end use(s)

Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 6 of 14

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
111-40-0	2,2-Diaminodiethylamine	1	4		TWA (8 h)	
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
71-23-8	n-Propanol	100	-		TWA (8 h)	
8052-41-3	Stoddard solvent	100	573		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified			
Worker DNEL, long-term		inhalation	systemic	44 mg/m ³
Worker DNEL, acute		inhalation	systemic	55 mg/m ³
Worker DNEL, long-term		inhalation	local	44 mg/m ³
Worker DNEL, acute		inhalation	local	55 mg/m ³
Worker DNEL, long-term		dermal	systemic	80 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	30 mg/kg bw/day
Worker DNEL, long-term		dermal	local	7,56 mg/cm ²
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
Worker DNEL, long-term		inhalation	systemic	2035 mg/m ³
Worker DNEL, long-term		dermal	systemic	773

PNEC values

CAS No	Substance	Value
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified	
Freshwater		0,14 mg/l
Marine water		0,35 mg/l
Freshwater sediment		1,14 mg/kg
Marine sediment		0,14 mg/kg

Additional advice on limit values

Currently there are no further exposure limits available.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. Provide protection equipment (eye wash bottles, etc.).

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety glasses with side shields. (EN 166)

Hand protection

Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 7 of 14

Suitable material: plastic and rubber (Viton.) EN 374

The exact break-through time must be obtained from the manufacturer of the protective gloves and adhered to.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Full cover clothing covering arms and legs.

Respiratory protection

In case of insufficient ventilation: Wear respiratory protection. (EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear; yellow
Odour:	like: Solvent

	Test method
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	>100 °C
Flammability:	not determined
Lower explosion limits:	1,0 vol. %
Upper explosion limits:	8 vol. %
Flash point:	23,9 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	11,2
Viscosity / kinematic:	No data available
Water solubility:	No data available
Partition coefficient n-octanol/water:	No data available
Vapour pressure: (at 37,8 °C)	226,666 hPa calculated.
Density:	No data available
Relative density:	0,795
Relative vapour density:	No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

No data available

Further Information

VOC: 693,6 g/l (calculated.)

SECTION 10: Stability and reactivity

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 8 of 14

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Electrostatic charges.

10.5. Incompatible materials

Oxidizing agents, strong. acid.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).
Irritating/poisonous gasses and vapours

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (oral) 12500,0 mg/kg; ATE (dermal) 12222,2 mg/kg; ATE (inhalation vapour) 46,22 mg/l; ATE (inhalation dust/mist) 4,839 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2807-30-9	2-(propyloxy)ethanol; EGPE				
	dermal	ATE 1100 mg/kg			
141-43-5	2-aminoethanol; ethanolamine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
111-40-0	2,2'-iminodiethylamine; diethylenetriamine				
	oral	LD50 1553 mg/kg	Rat		
	dermal	LD50 1045 mg/kg	Rabbit		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (2-aminoethanol; ethanolamine; 2,2'-iminodiethylamine; diethylenetriamine)

Carcinogenic/mutagenic/toxic effects for reproduction

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 9 of 14

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking. Causes damage to organs through prolonged or repeated exposure. (stoddard solvent; Low boiling point naphtha - unspecified)

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Endocrine disrupting properties

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

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics					
	Acute fish toxicity	LL50 mg/l	3-10	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EL50 mg/l	4,6-10	48 h	Daphnia	
111-40-0	2,2'-iminodiethylamine; diethylenetriamine					
	Acute fish toxicity	LC50	430 mg/l	96 h	Poecilia reticulata	
	Acute algae toxicity	ErC50 mg/l	1164	72 h		
	Acute crustacea toxicity	EC50	32 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	10 mg/l			

12.2. Persistence and degradability

No data available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified			
	OECD 301 B	63%	28	
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
	OECD 301F	98	28	

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified	5,01
111-40-0	2,2'-iminodiethylamine; diethylenetriamine	-2,13

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 10 of 14

BCF

CAS No	Chemical name	BCF	Species	Source
8052-41-3	stoddard solvent; Low boiling point naphtha - unspecified	39,66		

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

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

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods**Disposal recommendations**

Do not discard content/container with household waste and forward for disposal according to regional/national guidelines.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

040214 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES; wastes from the textile industry; wastes from finishing containing organic solvents; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)**14.1. UN number or ID number:**

UN 1993

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Low boiling point naphtha - unspecified, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3



Classification code:

F1

Special Provisions:

274 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

30

Tunnel restriction code:

D/E

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 1993

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 11 of 14

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Low boiling point naphtha - unspecified, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Special Provisions: 274 601

Limited quantity: 5 L

Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: 223, 274, 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (stoddard solvent; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3

Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 12 of 14

14.6. Special precautions for user

No special precautions known.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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 3, Entry 29, Entry 40, Entry 75

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information: P5c

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 [Detergents regulation]: applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

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): 16.

Version 1,00 - 11.09.2017

Version 2,00 - 04.12.2018

Version 3,00 - 16.08.2022 - Change and revision of the SDS because of new information / recipe

Version 4,00 - 17.04.2023 - changes in section 2.3, 11

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)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 13 of 14

EN: European Norm
 IATA: International Air Transport Association
 IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Code for Dangerous Goods
 CLP: Classification, Labeling, Packaging
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal concentration
 LD: Lethal dose
 log Kow: Octanol/water partition coefficient
 MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
 OECD: Organisation for Economic Co-operation and Development
 PBT: Persistent, bio-cumulative, toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 TRGS: Technische Regeln für Gefahrstoffe
 VOC: Volatile Organic Compounds
 vPvB: very persistent and very bio-cumulative
 VwVwS: Administrative Regulation for Water Pollutants
 WGK: German Water Hazard Class
 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
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 TLV: Threshold Limiting Value
 STOT: Specific Target Organ Toxicity
 AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

#677 Ultrasonic Non-Ammoniated Clock Cleaning Solution PCN: 135

Revision date: 17.04.2023

Product code: beco-006

Page 14 of 14

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

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