Safety Data Sheet
RATEMA CORROSAFE (Aerosol)

Replaces date: 04/02/2013 Revision date: 14/04/2015

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

1.1. Product identifier

Trade name: RATEMA CORROSAFE (Aerosol)

Vendor article no

Vendor article no	Description
19819400	

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

Recommended uses: Temporary corrosion protection.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Lahega Kemi AB

Address: Box 13073

Zip code: 250 13 Helsingborg

Country: SWEDEN

E-mail: info@lahega.se

Phone: 042-256700

Fax: 042-256750

Contact person: Name: Nina Wahlberg, Phone: 042-256700, E-mail: nina.wahlberg@lahega.se

1.4. Emergency Telephone Number

112 (SOS in Europe) (0-24)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Aerosol 1;H222 Aerosol 1;H229 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411

Most serious harmful effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictograms



Signal word: Danger

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

Contains

Substance: Propane, Butane (containing <0.1 % butadiene (203-450-8))

Hazard Statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental information

P210+P251 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not pierce or burn, even after use. P211 Do not spray on an open flame or other ignition source. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F. P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. P261 Avoid breathing vapours and spray. P264 Wash hands thoroughly after handling. P370/P378 In case of fire: Use carbon dioxide or powder agent to extinguish. P501 Dispose of contents /container at waste collection point or recycling centre – in accordance with local and national regulations.

2.3. Other hazards

No further information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		926-605-8	01-2119486291-36	25 - 60%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 STOT SE 3;H336 Aquatic Chronic 2;H411
Butane (containing <0.1 % butadiene (203-450-8))	106-97-8	203-448-7		10 - 25%		Flam. Gas 1;H220 Press. Gas Comp. gas;H280
Propane	74-98-6	200-827-9		10 - 25%		Flam. Gas 1;H220 Press. Gas Comp. gas;H280
Naphta (petroleum) hydrotreated light (<0,1% benzene)	64742-49-0	265-151-9		10 - 25%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411
pentane	109-66-0	203-692-4		< 1%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 STOT SE 3;H336 Aquatic Chronic 2;H411

Please see section 16 for the full text of R-phrases and H-phrases.

Ingredient comments: The Butane included contains <0,1% Butadiene, which means that the product can not be classified as carcinogenic. The petroleum solvents included contains <0,1% Benzen, wich means that the product can not be classified as carcinogenic or mutagenic.

SECTION 4: First aid measures

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

4.1. Description of first aid measures

Inhalation: Fresh air and rest. Get medical attention if any discomfort continues.

Ingestion: Apart from intentional ingestion, swallowing of major quantities is improbable. Give cream or cooking oil. DO NOT induce vomiting. Get medical attention immediately.

Skin contact: Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse with water. Contact physician if discomfort continues.

General: Show this safety data sheet, if possible.

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

Prolonged or repeated inhalation of vapours may cause damage to the central nervous system. Degreases the skin. Long-term exposure may cause irritation and possible infection.

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

No further information available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Fire may be extinguished using powder, foam or carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Aerosols can explode when heated to temperatures over 50 ºC.

5.3. Advice for fire-fighters

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

Other Information: Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear necessary protective equipment. See section 8.

6.2. Environmental precautions

Prevent discharges into the sewage system, watercourses or ground.

6.3. Methods and material for containment and cleaning up

Absorb in inert material (vermiculite, dry sand or earth) and collect. Minor spillage should be mopped up.

6.4. Reference to other sections

Other Information: In the event of spillage involving the risk of environmental damage, get in touch with the authority responsible.

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid heat, sparks and open flame. Do not spray on a naked flame or any incandescent material. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Store at temperatures below 50 ºC. Not to be stored in direct sunlight. Keep away from sources of ignition. Store in accordance with regulations for flammable goods.

7.3. Specific end use(s)

No known information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	Comment	Remarks
Naphta (petroleum) hydrotreated light (<0,1% benzene)	15m	300	1200		
Naphta (petroleum) hydrotreated light (<0,1% benzene)	8h	200	800		

8.2. Exposure controls

Appropriate engineering controls: Use only in well-ventilated areas. Wash your hands thoroughly after handling and before eating or smoking.

Personal protective equipment, hand protection: Use suitable protective gloves made of nitrile rubber.

Personal protective equipment, respiratory protection: If ventilation is insufficient, use a respirator with A filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Aerosol.
Colour	Uncoloured.
Odour	Organic solvents.
Solubility	Organic solvents.
Explosive properties	
Oxidising properties	

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	No data	

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octonol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Other Information: No further information available. Solubility in water: Insoluble in water.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Avoid high temperatures and direct sunlight.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

No dangerous reactions known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral: Apart from intentional ingestion, swallowing of major quantities is improbable. May cause irritation in the mouth and throat, stomach ache, nausea, vomiting and diarrhoea.

Acute toxicity - dermal: Protracted or repeated contact may irritate the skin.

Acute toxicity - inhalation: Inhalation of aerosol may cause irritation in the upper respiratory tract. Exposure to solvent vapours and spraying mist may cause headaches, dizziness, tiredness and nausea.

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

Serious eye damage/eye irritation: May cause smarting and lacrimation.

Other toxicological effects: Toxicological data are only available for the components, not for the mixture.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96h	LC50	12 mg/l			
Acute Daphnia		48h	EC50	3 mg/l			
Acute algae		72h	EC50	55 mg/l			

Naphta (petroleum) hydrotreated light (<0,1% benzene)

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96h	LC50	1 - 10mg/l			
Acute Daphnia		48h	EC50	1 - 10mg/l			
Acute algae		72h	EC50	1 - 10mg/l			

Propane

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96h	LC50	16.1 mg/l			
Acute Daphnia		48h	EC50	16.3 mg/l			
Acute algae		72h	IC50	11.3 mg/l			

Contains component/components that are toxic to aquatic organisms.

12.2. Persistence and degradability

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28d		98 %			

Degradable.

12.3. Bioaccumulative potential

Naphta (petroleum) hydrotreated light (<0,1% benzene)

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Log Pow				4.8			

Propane

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Log Pow				2.36			

Butane (containing <0.1 % butadiene (203-450-8))

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Log Pow				2.89			
BCF				33.88			

Bioaccumulation can be expected.

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

Other Information

The assessment is based on the properties of the components. The product contains substances that are considered to be harmful to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Empty or punctured aerosols can be classed as metal packaging and sent to a recycling station. Aerosol cans which are not empty are classed as hazardous waste and sent for destruction in accordance with local regulations.

Proposal EWC-code: 16 05 04

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:		**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2		
Hazard label(s):	2.1		
Hazard identification number:		**Tunnel restriction code:**	(D)
Other Information:			

Inland water ways transport (ADN)

14.1. UN-No.:		**14.4. Packing group:**	
14.2. UN proper shipping name:	Aerosols	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):			
Hazard label(s):			
Environmentally hazardous in tank vessels:		**Other Information:**	

Sea transport (IMDG)

14.1. UN-No.:	1950	**14.4. Packing group:**	
14.2. UN proper shipping name:	Aerosols	**14.5. Environmental hazards:**	
14.3. Transport hazard class(es):	2.1	**Environmental Hazardous Substance Name(s):**	
Hazard label(s):			
EmS:		**IMDG Code segregation group:**	
Other Information:			

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:

14.2. UN proper shipping name: Aerosols

14.3. Transport hazard class(es):

Hazard label(s):

14.4. Packing group:

14.5. Environmental hazards:

Other Information:

14.6. Special precautions for user

No special precautions required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not relevant.

SECTION 15: Regulatory information

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

Special Provisions: Statute Book of the Swedish Work Environment "Occupational exposure limit values and measures against air contaminants", AFS 2011:18. 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.

15.2. Chemical Safety Assessment

Other Information: No information available

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	14/04/2015	Nina Wahlberg	1, 2, 11, 15

List of relevant H-statements

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure, may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Document language: GB

Copyright © 1995 - 2015 DGOffice A/S, www.DGDoc.net