

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<input checked="" type="checkbox"/>	Approved for use	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Approved for laboratory use	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Approved by Aerosol Scandinavia AB	<input type="checkbox"/>

TRADE NAME ASSA LOCK CLEANER DE-ICER

Internal sort no. 050402.1390
Internal Name ASSA LOCK CLEANER

National manufacturer/importer

Enterprise Aerosol Scandinavia AB
Address Box 61
Postal code 186 21 Vallentuna
Country Sweden
Internet www.aerosol.se
Telephone +46 8 511 888 00
Fax +46 8 511 888 01

Name	E-mail	Tel. (work)	Country
Tomas Eriksson	tomas.eriksson@aerosol.se	+46 8 511 888 89	
Josefine Sjöblom	josefine.sjoblom@aerosol.se	+46 8 511 888 24	

Emergency Phone	Type of assistance	Opening Hours
112		

2. HAZARDS IDENTIFICATION



Extremely flammable



Irritating



Dangerous for the environment

GENERAL

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

HEALTH

Irritating to skin. Vapours may cause drowsiness and dizziness.

FIRE AND EXPLOSION

Extremely flammable. Pressure chamber may explode in the event of fire.

ENVIRONMENT

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

3. COMPOSITION / INFORMATION ON INGREDIENTS

No	Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	Classification
1	butane (containing < 0.1 % butadiene (203-450-8))		203-448-7	106-97-8	10 - 20 %	F+,R12
2	propane		200-827-9	74-98-6	10 - 20 %	F+,R12
3	isopropanol, isopropyl alcohol, propan-2-ol		200-661-7	67-63-0	10 - 20 %	Xi,F,R36 - R67 - R11
4	cyclohexane		203-806-2	110-82-7	20 - 40 %	Xn,F,N,R38 - R50/53 - R65 - R67 - R11
5	naphtha (petroleum), hydrotreated light (< 0,1% benzene)		265-151-9	64742-49-0	5 - 10 %	Xi,F,N,R38 - R51/53 - R65 - R67 - R11

Explanation of symbols: T+=highly toxic, T=toxic, C=corrosive, Xn=harmful, Xi=irritant E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment, Cancer=Carcinogenic, Mut=Mutagenic, Rep=Toxic for reproduction, Conc.=Concentration

INGREDIENT COMMENTS

R-phrases mentioned in section 3 are listed up in section 16 with complete text.

4. FIRST AID MEASURES

GENERAL

Get medical attention if any discomfort continues. Show this safety data sheet, if possible.

INHALATION

Fresh air and rest.

SKIN CONTACT

Wash skin with soap and water.

EYE CONTACT

Rinse thoroughly with water until the irritation subsides.

INGESTION

Drink a few glasses of water or milk. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire may be extinguished using powder, foam or carbon dioxide (CO₂).

FIRE AND EXPLOSION HAZARDS

Pressurized container: Must not be exposed for temperatures above 50 °C. Pressure chamber may explode in the event of fire.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Gases that are dangerous to health are formed in a fire. Avoid breathing fire vapours. Firemen must wear closed-circuit breathing equipment and full protective suits.

OTHER INFORMATION

Containers close to fire should be removed immediately or cooled with water. Do not allow extinguishing water or spillage to run out into the sewage system.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use only in well-ventilated areas. Wear necessary protective equipment. The protective equipment that shall be used is stated in section 8.

SAFETY ACTIONS TO PROTECT EXTERNAL ENVIRONMENT

Must not be discharged into the sewage system.

METHODS FOR CLEANING UP

Move the leaking container to a segregated area. Major spillage should be collected with suitable absorption agents and dumped or incinerated in accordance with relevant regulations. Soak up with sawdust, sand or other inert absorption material. Smaller spill: Wipe away with paper or textile fabric.

OTHER INFORMATION

Remains and waste must be treated as environmentally-dangerous waste.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Extremely flammable. Aerosols can explode when heated to temperatures over 50 °C.

HANDLING ADVICE

Keep out of the reach of children. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Observe normal care. Avoid all unnecessary contact with chemicals.

STORAGE

Pressurized container: Must not be exposed for temperatures above 50 °C. Not to be stored in direct sunlight. Keep in a dry, cool and well-ventilated place. Should not be stored in the immediate vicinity of easily combustible substances. Keep away from sources of ignition - No smoking. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROL

Use only in well-ventilated areas. All handling to take place in well ventilated area. Provide eyewash, quick drench. Wash your hands thoroughly after handling and before eating or smoking.

RESPIRATORY PROTECTION

No respirator is normally needed. If ventilation is insufficient, use a breathing mask with filter for organic vapours (type A).

EYE PROTECTION

Eye protection is normally not needed.

HAND PROTECTION

Hand protection is normally not needed. Protective gloves must be used if there is a risk of direct contact or splash.

PROTECTIVE CLOTHING

Protective clothing is normally not needed.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

OEL value

Ingredient name	Cas nr.	Interval	ppm	mg/m3	Year	Notification
cyclohexane	110-82-7	8 h	300,0	1000,0	1987	
cyclohexane	110-82-7	15 min.	370,0	1300,0	1987	
isopropanol, isopropyl alcohol, propan-2-ol	67-63-0	8 h	150,0	350,0	1989	
isopropanol, isopropyl alcohol, propan-2-ol	67-63-0	15 min.	250,0	600,0	1989	
naphtha (petroleum), hydrotreated light (< 0,1% benzene)	64742-49-0	8 h	200,0	800,0	2000	
naphtha (petroleum), hydrotreated light (< 0,1% benzene)	64742-49-0	15 min.	300,0	1200,0	2000	

OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

The OEL values are based on the Swedish regulation, AFS 2005:17 Occupational exposure limit values and measures against air contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Aerosol.
Colour Clear.
Odour Naphtha.
Solubility Organic solvents.

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

Avoid high temperatures and direct sunlight.

MATERIALS TO AVOID

No dangerous reactions known.

HAZARDOUS DECOMPOSITION PRODUCTS

No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION

INHALATION

High concentrations may cause: Irritation of nose, throat and airway. May cause headache, dizziness, tiredness and nausea.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritant of eyes and mucous membranes.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

INGESTION

Ingestion may cause: Smarting in mouth and throat. Stomach pain. Nausea and vomiting.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

OTHER INFORMATION

Dangerous for the environment. Prevent discharges into the sewage system, watercourses or lakes.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

The company is member of REPA.

Treated as environmentally-dangerous waste. Refuse, spillages and empty containers are treated as dangerous waste. Dispose of this material and its container to hazardous or special waste collection point. Observe local regulations. Dump or destroy in accordance with official recommendations and applicable legislation.

CATEGORY OF WASTE

Waste code 14 06 03*

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: Yes No Not assessed

UN No.: 1950

TRADE NAME AND DESCRIPTION

AEROSOLS

ADR/RID

Class: 2,5F

Packing group:

Danger form: 2.1

IMDG

Class: 2.1

Packing group:

Sub Risk: no

EMS: F-D,S-U

Marine Pollutant: no

IATA

Class: 2.1

Packing group:

Sub Risk: no

Label: 2.1

OTHER INFORMATION

Aerosols may be carried by land (ADR) as limited quantities (LQ 2) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with "UN 1950". These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER

15. REGULATORY INFORMATION



Extremely flammable



Irritating



Dangerous for the environment

R-PHRASES

Nr.	R-Phrase text
R12	Extremely flammable.
R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

S-PHRASES

S51 Use only in well-ventilated areas.
S23 Do not breathe spray.
S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

OTHER LABELLING PHRASES

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

16. OTHER INFORMATION

LIST OF RELEVANT R-PHRASES

Nr.	R-Phrase text
R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

TRAINING ADVICE

The information in this MSDS shall be available to those who handle the product.

REVISION HISTORY

Version	Rev. date	Responsible	Changes
0.0.1	20/05/2008	J. Mattsson	-

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 20/05/2008

Internal No:

Replaces date:

ASSA LOCK CLEANER DE-ICER