

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

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

1.1 Product identifier

Trade name : Ardrox 8032 Aerosol

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

Use of the Sub- : Magnetoscopic liquid.
stance/Mixture

Recommended restrictions : None known.
on use

1.3 Details of the supplier of the safety data sheet

Company : Chemetall Ltd
Denbigh Road
Bletchley Milton Keynes MK1 1PB
Telephone : 01908 649333
Telefax : 01908 373939

Contact person product safety
Telephone : +49(0)6971652832
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Emergency telephone : 01908 649333
number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.
H229: Pressurized container: May burst if heated.

Classification (67/548/EEC, 1999/45/EC)

Extremely flammable R12: Extremely flammable.

2.2 Label elements


Labelling (REGULATION (EC) No 1272/2008)

Ardrox 8032 Aerosol


Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H222 H229	Extremely flammable aerosol. Pressurized container: May burst if heated.
Precautionary statements	:	Prevention: P210 P211 P251 P260 P262 P271 P280 Response: P308 + P313 Storage: P410 + P412 Disposal: P501	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF exposed or concerned: Get medical advice/ attention. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Dispose of contents/ container to an approved waste disposal plant.

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms	:		
		Extremely flammable	
R-phrases(s)	:	R12	Extremely flammable.

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

S-phrase(s)	: S16	Keep away from sources of ignition - No smoking.
	S23	Do not breathe spray.
	S24/25	Avoid contact with skin and eyes.
	S33	Take precautionary measures against static discharges.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S51	Use only in well-ventilated areas.
	S60	This material and its container must be disposed of as hazardous waste.

Special labelling of certain mixtures : 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.

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Mixture of organic solvents.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C13 - C16, n-alkanes, isoalkanes, cyclics, < 0,03 % aromatics	64742-47-8 934-954-2 01-2119826592-36	Xn; R65	Asp. Tox. 1; H304	>= 65 - < 80
Propane	74-98-6 200-827-9 01-2119486944-21	F+; R12	Flam. Gas 1; H220 Press. Gas	>= 2.5 - < 10

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

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Substances with a workplace exposure limit :

Butane	106-97-8 203-448-7	F+; R12 Nota C	Flam. Gas 1; H220 Press. Gas	>= 25 - < 50
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For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First-aid crew: Ensure self-protection.
Move out of dangerous area.
Take off contaminated clothing and shoes immediately.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.
Consult a physician.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder
Alcohol-resistant foam
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : May form toxic gases on heating or in case of fire.
Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Further information : Use water spray to cool unopened containers.
Risk of bursting.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See chapter 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Floor level ventilation required.
Have eye wash bottle or eye rinse ready at the work place.

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

To avoid risks to man and the environment, comply with the instructions for use.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.
Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Store in a place accessible by authorized persons only.
To maintain product quality, do not store in heat or direct sunlight.

Storage temperature : < 50 °C

7.3 Specific end use(s)

Specific use(s) : Magnetoscopic liquid.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Butane	106-97-8	TWA	600 ppm 1,450 mg/m3	2007-08-01	GB EH40
Further information	: Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene				
	106-97-8	STEL	750 ppm 1,810 mg/m3	2007-08-01	GB EH40
Further information	: Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene				

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Electrical equipment should be protected to the appropriate standard.
Use only explosion-proof equipment.

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Recommended Filter type:
AX-P2
- Hand protection : Nitrile rubber
Neoprene gloves
butyl-rubber
Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Eye protection : Eye protection (EN 166)
Tightly fitting safety goggles
- Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
- Hygiene measures : Take off contaminated clothing and shoes immediately.
Keep away from food, drink and animal feedingstuffs.
Wash hands before breaks and immediately after handling the product.
Avoid contact with skin and eyes.
Do not breathe vapour.
Do not breathe spray.

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: black
Odour	: hydrocarbon-like
Flash point	: > 100 °C Active substance
Density	: -60 °C Butane/Propane 3.16 g/cm ³ at 20 °C Active substance

9.2 Other information

Explosivity : Vapours may form explosive mixture with air.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.
Pressurized container: May burst if heated.

10.4 Conditions to avoid

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

Risk of decomposition. : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Hydrocarbons, C13 - C16, n-alkanes, isoalkanes, cyclics, < 0,03 % aromatics : LD50: > 5,000 mg/kg
Species: rat
Method: OECD Test Guideline 401

Acute inhalation toxicity

Hydrocarbons, C13 - C16, n-alkanes, isoalkanes, cyclics, < 0,03 % aromatics : LC50: > 5.26 mg/l
Species: rat
Method: OECD Test Guideline 403

Acute dermal toxicity

Hydrocarbons, C13 - C16, n-alkanes, isoalkanes, cyclics, < 0,03 % aromatics : LD50: > 3,160 mg/kg
Species: rabbit
Method: OECD Test Guideline 402

Skin corrosion/irritation

Skin irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : May cause eye irritation with susceptible persons.

Respiratory or skin sensitisation

Sensitisation : No data available

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

12.2 Persistence and degradability

Biodegradability : No data available

12.3 Bioaccumulative potential

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environmental compartments : No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : slightly water endangering
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

ADR

UN number : 1950
UN proper shipping name : AEROSOLS Butane, Propane
Transport hazard class(es) : 2
Classification Code : 5F
Limited Quantity (LQ) Inner Packaging : 1.00 L
Maximum quantity : 30.00 KG
Labels : 2.1
Tunnel restriction code : (D)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

Environmentally hazardous : no

IATA

UN number : 1950
Description of the goods : Aerosols, flammable Butane, Propane
Class : 2.1
Labels : 2.1

IATA_C

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Maximum quantity : 150.00 KG
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Maximum quantity : 75.00 KG
Environmentally hazardous : no

IMDG

UN number : 1950
Description of the goods : AEROSOLS Butane, Propane
Class : 2.1
Labels : 2.1
EmS Number 1 : F-D
EmS Number 2 : S-U
Marine pollutant : no

**Shaded from sources of heat.
"IMDG-Code segregation group not applicable".**

**Shaded from sources of heat.
"IMDG-Code segregation group not applicable".**

RID

UN number : 1950
Description of the goods : AEROSOLS Butane , Propane
Transport hazard class(es) : 2
Classification Code : 5F
Hazard Identification Number : 23
Labels : 2.1
Limited Quantity (LQ) Inner : 1.00 L
Packaging
Maximum quantity : 30.00 KG

Environmentally hazardous : no

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Water contaminating class (Germany) : WGK 1 slightly water endangering
VVWS A4

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

: Classification / Labeling according to Directive 2008/47/EU.

15.2 Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet. The necessary safety - related information is stated in the first 16 sections.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

R12 Extremely flammable.
R65 Harmful: may cause lung damage if swallowed.

Full text of H-Statements referred to under sections 2 and 3.

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H229 Pressurized container: May burst if heated.
H304 May be fatal if swallowed and enters airways.

Full text of Notas referred to under section 3

Ardrox 8032 Aerosol

Version: 2.0

Revision Date 13.05.2014

Print Date 03.10.2014

Nota C

Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In Annex I, a general designation of the following type is sometimes used: "xylenol". In this case the manufacturer or any other person who markets such a substance must state on the label whether the substance is a specific isomer (a) or a mixture of isomers (b). Example: (a) 2,4-dimethylphenol (b) xyleneol (mixture of isomers).

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.