



## SAFETY DATA SHEET (Aerosol) 20:20 Clear

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

PRODUCT NAME	(Aerosol) 20:20 Clear
PRODUCT NO.	A223-1
APPLICATION	Glass cleaner
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### 2 HAZARDS IDENTIFICATION

Extremely flammable. Vapours may cause drowsiness and dizziness. Irritating to eyes.

CLASSIFICATION Xi;R36. F+;R12. R67.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
2-BUTOXYETHANOL	203-905-0	111-76-2	1-5%	Xn;R20/21/22 Xi;R36/38
BUTANE	203-448-7	106-97-8	10-30%	F+;R12
PROPAN-2-OL	200-661-7	67-63-0	30-60%	F;R11 Xi;R36 R67
PROPANE	200-827-9	74-98-6	1-5%	F+;R12

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

#### SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

**(Aerosol) 20:20 Clear****SPECIAL FIRE FIGHTING PROCEDURES**

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Be aware of danger of explosion.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

Aerosol cans may explode in a fire. **HIGHLY FLAMMABLE!**

**SPECIFIC HAZARDS**

Aerosol containers can explode when heated, due to excessive pressure build-up. Fire creates: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>).

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground.

**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Read and follow manufacturer's recommendations. During application and drying, solvent vapours will be emitted. Eliminate all sources of ignition.

**STORAGE PRECAUTIONS**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame.  
Pressurised container: Must not be exposed for temperatures above 50°C. Store in tightly closed original container in a dry and cool place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-BUTOXYETHANOL	WEL	25 ppm		50 ppm		Sk
BUTANE	WEL	600 ppm	1450 mg/m <sup>3</sup>	750 ppm	1810 mg/m <sup>3</sup>	
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	
PROPANE		Asphyxiating Asphyxiating	Asphyxiating	Asphyxiating Asphyxiating	Asphyxiating	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours. No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

**HAND PROTECTION**

Use protective gloves made of: Polyvinyl chloride (PVC). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**(Aerosol) 20:20 Clear****EYE PROTECTION**

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**OTHER PROTECTION**

Wear appropriate clothing to prevent repeated or prolonged skin contact.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Aerosol Clear liquid		
COLOUR	Colourless		
ODOUR	Sweetish		
RELATIVE DENSITY	0.719 (20°C)	VOLATILE ORGANIC COMPOUND (VOC)	471 g/litre

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use. Avoid: Heat, sparks, flames. Shocks and physical damage.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

**MATERIALS TO AVOID**

Strong alkalis. Strong oxidising substances.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>).

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Vapour may irritate respiratory system or lungs. Vapours may cause drowsiness and dizziness.

**INGESTION**

May cause discomfort if swallowed.

**SKIN CONTACT**

May cause defatting of the skin, but is not an irritant.

**EYE CONTACT**

Spray and vapour in the eyes may cause irritation and smarting.

**HEALTH WARNINGS**

Because of quantity and composition, the health hazard is small.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

No negative effects on the aquatic environment are known.

**DEGRADABILITY**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

Do not puncture or incinerate even when empty. Empty aerosols should be recycled where facilities exist. Full or part full aerosols should be disposed of as hazardous waste in accordance with local authority requirements.

**DISPOSAL METHODS**

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Recover and reclaim or recycle, if practical.

**14 TRANSPORT INFORMATION**

**(Aerosol) 20:20 Clear**

UK ROAD CLASS	2.1	UK ROAD PACK GR.	#
PROPER SHIPPING NAME	AEROSOLS, flammable		
UN NO. ROAD	1950	ADR CLASS	Class 2: Gases
ADR CLASS NO.	2.1	TUNNEL RESTRICTION CODE	(D)
ADR PACK GROUP	#	CEFIC TEC(R) NO.	20G5F
ADR LABEL NO.	2.1	RID PACK GROUP	#
RID CLASS NO.	2.1	IMDG CLASS	2.1
UN NO. SEA	1950	IMDG PACK GR.	#
IMDG PAGE NO.	93 (vol 2)	UN NO. AIR	1950
EMS	F-D, S-U	AIR PACK GR.	#
AIR CLASS	2.1		

**15 REGULATORY INFORMATION**

## LABELLING



Irritant



Extremely Flammable

## RISK PHRASES

R12	Extremely flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

## SAFETY PHRASES

S2	Keep out of the reach of children
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51	Use only in well-ventilated areas.

## DETERGENT LABELLING

< 5%	Perfumes
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## EU DIRECTIVES

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## GUIDANCE NOTES

Workplace Exposure Limits EH40.

**16 OTHER INFORMATION**

**(Aerosol) 20:20 Clear**

## GENERAL INFORMATION

Only trained personnel should use this material. This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.

REVISION DATE 05/05/2009

REV. NO./REPL. SDS GENERATED 1

## RISK PHRASES IN FULL

R11	Highly flammable.
R12	Extremely flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R67	Vapours may cause drowsiness and dizziness.

## DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.