

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

1.1. Product identifier

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

Use of the substance/mixture

Firing, coating for metals

1.3. Details of the supplier of the safety data sheet

Company name:	908 Ltd	
Street:	Unit 6 Derwenthaugh Marina	
Place:	Blaydon on Tyne, NE21 5LL	
Telephone:	0845 9008 908	Fax: 0845 9008 907
e-mail:	enquiries@908ltd.co.uk	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
 Aerosol: Aerosol 1
 Serious eye damage/eye irritation: Eye Irrit. 2
 Carcinogenicity: Carc. 2
 Specific target organ toxicity - single exposure: STOT SE 3
 Hazard Statements:
 Extremely flammable aerosol.
 Pressurised container: May burst if heated.
 Causes serious eye irritation.
 Suspected of causing cancer.
 May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

molybdenum trioxide
 acetone
 1-methoxy-2-propanol

Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to in accordance with local and national regulations.

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.

2.3. Other hazards

Inhalation of vapours in high concentration can cause narcotic effects .
 Intensive spraying of parts of the skin can result in frostbite of these parts.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of the following substances with non-hazardous admixtures.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64-17-5	ethanol			20 - < 25 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
1313-27-5	molybdenum trioxide			< 10 %
	215-204-7			
	Carc. 2, Eye Irrit. 2, STOT SE 3; H351 H319 H335			
67-64-1	acetone			10 - < 15 %
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
115-10-6	dimethyl ether			10 - < 15 %
	204-065-8	603-019-00-8		
	Flam. Gas 1; H220			
107-98-2	1-methoxy-2-propanol			5 - < 10 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336			
14808-60-7	Quartz (SiO2)			1 - < 5 %
	238-878-4			
	STOT RE 2; H373			
1330-20-7	xylene			1 - < 5 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			

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



SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothes and wash before re-use.
Take away from danger area and lay down affected person .
In the event of persistent symptoms receive medical treatment.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of vapours in high concentration can cause narcotic effects .
If you feel unwell, seek medical advice.

After contact with skin

Wash off with soap and plenty of water.
Consult a doctor if skin irritation persists.
Intensive spraying of parts of the skin can result in frostbite of these parts.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult a physician.

After ingestion

Do not induce vomiting.
Summon a doctor immediately.

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

Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:
toxic gases/vapours, Metallic oxides, carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Vapours are heavier than air and spread along ground .
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Heating will cause pressure rise with risk of bursting.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.
Fire or intense heat may cause violent rupture of packages.
Ensure adequate ventilation.



Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.
Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.
Waste disposal according to local regulations .

6.4. Reference to other sections

Information for safe handling look up chapter 7.
Information for personal protective equipment look up chapter 8.
Information for disposal see section 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.
Do not breathe vapours or spray mist.
Avoid contact with the skin and the eyes.

Advice on protection against fire and explosion

Do not spray on a naked flame or any other incandescent material.
Heating will cause pressure rise with risk of bursting.
Do not smoke.

Further information on handling

Take the usual precautions when handling with chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.
Keep away from heat and sources of ignition.

Advice on storage compatibility

Incompatible with oxidizing agents.
Incompatible with strong acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific enduse(s)

Firing, coating for metals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
-	Molybdenum compounds (as Mo), soluble compounds	-	5		TWA (8 h)	WEL
		-	10		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
107-98-2	1-methoxy-2-propanol			
Consumer DNEL, long-term		oral	systemic	33 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	183 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	78 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	43,9 mg/m ³
Worker DNEL, long-term		inhalation	systemic	369 mg/m ³

PNEC values

CAS No	Substance	Value
107-98-2	1-methoxy-2-propanol	
Freshwater		10 mg/l
Freshwater (intermittent releases)		100 mg/l
Marine water		1 mg/l
Freshwater sediment		52,3 mg/kg
Marine sediment		5,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		4,59 mg/kg



8.2. Exposure controls

Appropriate engineering controls

Provide sufficient air exchange and/or exhaust in work rooms.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product .

When using do not eat, drink or smoke.

Avoid contact with eyes and skin.

Eye/face protection

Safety goggles with side protection (EN 166).

Hand protection

Chemical-resistant gloves (EN 374).

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

Skin protection

Long sleeved clothing (EN 368).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: Light grey
 Odour: Characteristic

pH-Value: Not applicable.

Changes in the physical state

Melting point: No information available.

Initial boiling point and boiling range: Not applicable.

Flash point: No information available.

Flammability

Solid: No information available.

Gas: No information available.

Explosive properties

In use formation of flammable/explosive vapour-air mixtures possible.

Lower explosion limits: 2,1 vol. %

Upper explosion limits: 9,4 vol. %

Ignition temperature: No information available.

Auto-ignition temperature

Solid: No information available.

Gas: No information available.

Decomposition temperature: No information available.

Oxidizing properties

No information available.

Vapour pressure: No information available.

Density: No information available.

Water solubility: No information available.

Solubility in other solvents

No information available.

Partition coefficient: No information available.



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Viscosity / dynamic:	No information available.
Viscosity / kinematic:	No information available.
Vapour density:	No information available.
Evaporation rate:	No information available.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat and sources of ignition.
Fire or intense heat may cause violent rupture of packages.

10.5. Incompatible materials

Strong oxidizing agents.
Strong acids and strong bases.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.
Fire may produce:
toxic gases/vapours, Metallic oxides, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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



CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol				
	oral	LD50 mg/kg	6200	Rat	
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	
1313-27-5	molybdenum trioxide				
	oral	LD50 mg/kg	2690	Rat	GESTIS
	inhalation (4 h) aerosol	LC50 mg/l	> 5,840	Rat	GESTIS
67-64-1	acetone				
	oral	LD50 mg/kg	5800	Ratte	RTECS
	dermal	LD50 mg/kg	20000	Kaninchen	IUCLID
	inhalation (4 h) vapour	LC50	76 mg/l	Ratte	
107-98-2	1-methoxy-2-propanol				
	oral	LD50 mg/kg	4016	Rat	ECHA EU B1
	dermal	LD50 mg/kg	> 2000	Rabbit	ECHA EU B3
1330-20-7	xylene				
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (molybdenum trioxide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience

Observations relevant to classification

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Inhalation of vapours in high concentration can cause narcotic effects .

Further information

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.



SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol					
	Acute fish toxicity	LC50 8140 mg/l	96 h	Golden orfe		
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna		
1313-27-5	molybdenum trioxide					
	Acute fish toxicity	LC50 130 mg/l	96 h	Onchorhynchus mykiss		
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Algae		
	Acute crustacea toxicity	EC50 150 mg/l	48 h	Daphnia magna		
67-64-1	acetone					
	Acute fish toxicity	LC50 5540 mg/l	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 6100 mg/l	48 h	Daphnia magna		
107-98-2	1-methoxy-2-propanol					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Onchorhynchus mykiss	ECHA	OECD 203
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	IUCLID	

12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
107-98-2	1-methoxy-2-propanol			
	OECD 301E	96%	28	ECHA
	DOC decrease			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol	- 0,31
67-64-1	acetone	-0,24
115-10-6	dimethyl ether	0,1
107-98-2	1-methoxy-2-propanol	-0,437

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Low hazard to waters.



Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Where possible recycling is preferred to disposal.
 Can be incinerated, when in compliance with local regulations.

Waste disposal number of waste from residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08);
 waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent
 mixtures; hazardous waste

Contaminated packaging

Offer empty spray cans to an established disposal company.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2

14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number: UN 1950_
14.2. UN proper shipping name: AEROSOLS_
14.3. Transport hazard class(es): 2

14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1

14.4. Packing group: -
 Hazard label: 2.1





Marine pollutant: No
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -

Hazard label: 2.1



Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

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 29: butane
 2010/75/EU (VOC): 70,515 %
 2004/42/EC (VOC): 70,515 %
 Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils 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.

Water contaminating class (D): 1 - slightly water contaminating

Additional information

The substance resp. all components are in:

TSCA: listed



EINECS/ELINCS: listed
 DSL: listed
 AICS: listed
 ENCS/MITI: listed
 PICCS (PH): listed
 KECI (KR): listed
 HSNO listed
 IECSC listed

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Changes in chapter: 1 - 15.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 IMDG = International Maritime Code for Dangerous Goods
 IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
 MARPOL = International Convention for the Prevention of Pollution from Ships
 IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
 CAS = Chemical Abstract Service
 EN = European norm
 ISO = International Organization for Standardization
 VOC = Volatile organic compound
 STOT SE = Specific target organ toxicity single exposure
 STOT RE = Specific target organ toxicity repeated exposure
 PBT = Persistent Bioaccumulative and Toxic
 vPvB = Very Persistent and very Bio-accumulative
 bw = body weight
 LD = Lethal dose
 LC = Lethal concentration
 EC = Effect concentration
 IC = Median immobilisation concentration or median inhibitory concentration

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"
Carc. 2; H351	Calculation method
STOT SE 3; H336	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H229 Pressurised container: May burst if heated.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.



H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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

