According to 1907/2006/EG, Article 31



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MetroScan Spray

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

1.1 Product identifier

Tradename: MetroScan Spray Registration number (REACH): not relevant (mixture)

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

Relevant identified uses: coating

Uses advised against: Do not use for products which come into contact with

foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Metrodent Limited

Lowergate Works, Lowergate, Paddock

Huddersfield HD3 4EP

Phone: 01484 461616

E-mail sales@metrodent.com

Website: metrodent.com
Further information obtainable from: Metrodent Limited

**1.4 Emergency telephone number** +44 (0) 1484 4661616

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	1	Aerosol 1	H222,H229

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

Signal word: Danger.

Pictograms:



GHS02

**Hazard statements:** 

H222 Extremely flammable material

H229 Pressurised container: May burst if heated.

**Precautionary statements:** 

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container: Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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75/324/EEC relating to aerosol dispensers:

Additional labelling according to Directive Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3 Other hazards:

There is no additional information.

## **SECTION 3: Composition/information on ingredients**

Substances:

Not relevant (mixture)

3.2 Mixtures: Description of the mixture

Hazardous ingredie Name of substance		Wt%	Classification acc.	Pictograms
			to GHS	
butane	CAS No 106-97-8 EC No 203-448-7	50 – < 75	Flam. Gas 1A / H220 Press. Gas L / H280	
	REACH Reg. No 01-2119474691-32- xxxx			
bioethanol	CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5 REACH Reg. No 01-2119457610-43- xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319	
propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21- xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas L / H280	
isobutane	CAS No 75-28-5 EC No 200-857-2 Index No 601-004-00-0 REACH Reg. No 01-2119485395-27- xxxx	1-<5	Flam. Gas 1A / H220 Press. Gas L / H280 Aquatic Chronic 3 / H412	

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
bioethanol	Eye Irrit. 2; H319: C ≥ 50 %	-	-	

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#### **SECTION 4: First aid measures**

4.1 Description of first aid measures

General notes: Do not leave affected person unattended. Remove victim out of

the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery

position. Never give anything by mouth.

Following inhalation: If breathing is irregular or stopped, immediately seek medical

assistance and start first aid actions. Provide fresh air.

Following skin contact: Wash with plenty of soap and water. Take off contaminated

clothing. Thaw frosted parts with lukewarm water. Do not rub

affected area.

Following eye contact: Irrigate copiously with clean, fresh water for at least 10

minutes, holding the eyelids apart. Remove contact lenses, if

present and easy to do. Continue rinsing.

Following ingestion: Rinse mouth with water (only if the person is conscious). Do

NOT induce vomiting.

4.2 Most important symptoms and effects,

both acute and delayed:

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical

attention and special treatment needed:

none

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, BC-powder

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide (CO), Carbon dioxide (CO2)

**5.3** Advice for firefighters In case of fire and/or explosion do not breathe fumes. Co-

ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with

normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to

safety.

For emergency responders: Wear breathing apparatus if exposed to

vapours/dust/spray/gases. Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures,

methods or procedures of work organization.

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6.2 Environmental precautions:

Keep away from drains, surface and ground water. Retain

contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill:

Covering of drains

Advice on how to clean up a spill

Equipment required for containment/clean-

up:

Non-sparking tools and equipment, Collecting basins for spills,

Personal protective equipment

Other information relating to spills and

releases:

Place in appropriate containers for disposal. Ventilate affected

area.

**6.4 Reference to other sections:** Hazardous combustion products: see section 5.

Personal protective equipment: see section 8. Incompatible materials: see section 10.

Disposal considerations: see section 13.

**SECTION 7: Handling and storage** 

7.1 Precautions for safe handling:

Recommendations

Measures to prevent fire as well as aerosol

and dust generation:

Use local and general ventilation. Use only in well-ventilated areas. Prevent from heating up above 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Advice on general occupational hygiene: Wash hands after use. Do not eat, drink and smoke in work

areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away

from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Explosive atmospheres Use local and general ventilation. Prevent from heating up

above 50 °C/122 °F. Protect from sunlight.

Corrosive conditions: Protect from moisture.

Flammability hazards: Keep away from sources of ignition - No smoking. 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. Protect from sunlight.

Control of effects: Do not pierce or burn, even after use.

Protect against external exposure, such as: Heat

Specific designs for storage rooms or vessels

Maximum storage period: Best before date

Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may

be used.

Storage class (LGK) - TRGS 510: LGK 2 B (aerosol dispensers and lighters)

7.3 Specific end use(s): Coating

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## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters:

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Countr y	Name of agent	CAS No	Identifi er	TWA [ppm]	TWA [mg/m³ ]	STEL [ppm]	STEL [mg/m³ ]	_	Ceiling- C [mg/m³]	Notat ion	Source
GB	butane	106- 97-8	WEL	600	1,450	750	1,810				EH40/ 2005
GB	ethanol	64-17- 5	WEL	1,000	1,920						EH40/ 2005

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is

related to a 15-minute period (unless otherwise specified)

**TWA** 

time-weighted average (long-term exposure limit): measured or calculated in relation to a

reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DN	ELs of comp	onents of	the mixture			
Name of substance	CAS No	Endpoin t	Threshold level	Protection goal, route of exposure	Used in	Exposure time
bioethanol	64-17-5	DNEL	1,900 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
bioethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
bioethanol	64-17-5	DNEL	950 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
bioethanol	64-17-5	DNEL	87 mg/kg	human, oral	consumer (private households)	chronic - systemic effects
bioethanol	64-17-5	DNEL	206 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
bioethanol	64-17-5	DNEL	114 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects

Relevant PN	ECs of com	ponents of	the mixture			
Name of substance	CAS No	Endpoin t	Threshold level	Organism	Environmental compartment	Exposure time
bioethanol	64-17-5	PNEC	0.96 mg/l	aquatic organisms	freshwater	short-term (single instance)
bioethanol	64-17-5	PNEC	0.79 mg/l	aquatic organisms	marine water	short-term (single instance)
bioethanol	64-17-5	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
bioethanol	64-17-5	PNEC	3.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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bioethanol	64-17-5	PNEC	0.63 mg/kg	terrestrial organisms	soil	short-term (single instance)
bioethanol	64-17-5	PNEC	2.75 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls: General ventilation.

Individual protection measures (personal

protective equipment):

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of

work organization.

Eye/face protection: Wear eye/face protection.

Skin protection

Hand protection: Butyl rubber; Layer thickness: 0.7 mm; Break through time:

> 240 min. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Check leaktightness/ impermeability prior to use. Do not wear gloves near

rotary machines or tools.

Take recovery periods for skin regeneration. Preventive skin Other protection measures:

protection (barrier creams/ointments) is recommended. Wash

hands thoroughly after handling.

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection.

> Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

flammable aerosol in accordance with GHS criteria

The disposal by sewage disposal systems is generally not Environmental exposure controls:

allowed.

#### **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

liquid, solid, gaseous (spray aerosol) Physical state:

Colour: not determined Odour: characteristic Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling -161.5 °C at 1,013 hPa

range:

Lower and upper explosion limit:2.5 vol% -

15 vol%:

Flammability:

Flash point: -88.6 °C at 1,013 hPa

calculated value, referring to a component of the mixture Auto-ignition temperature: 287 °C (auto-ignition temperature (liquids and gases))

not determined

Decomposition temperature: not relevant pH (value): not applicable not relevant Kinematic viscosity:

Solubility(ies): Partition coefficient

Partition coefficient n-octanol/water (log

value):

this information is not available

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Vapour pressure:

169.3 hPa at 25 °C

Density and/or relative density

Density:

not determined

Relative vapour density:

information on this property is not available

Particle characteristics:
Decomposition temperature:

not relevant (aerosol) not determined

Other information:

90.71 % by mass of the contents are flammable

Information with regard to physical hazard classes

Aerosols

9.2

Components (flammable):

90.71 %

Other safety characteristics: the

there is no additional information

**SECTION 10: Stability and reactivity** 

10.1 Reactivity:

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive

substance(s). Risk of ignition.

10.2 Chemical stability:

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions:

No known hazardous reactions.

10.4 Conditions to avoid:

Do not spray on an open flame or other ignition source. Keep

away from heat.

Hints to prevent fire or explosion:

Protect from sunlight.

10.5 Incompatible materials:

Oxidisers

10.6 Hazardous decomposition products:

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

•

**SECTION 11: Toxicological information** 

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Test data are not available for the complete mixture.

Classification procedure:

The method for classification of the mixture is based on

ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity:

Shall not be classified as acutely toxic.

Skin corrosion/irritation:

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation:

Shall not be classified as seriously damaging to the eye or eye

irritant.

Respiratory or skin sensitisation:

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity:

Shall not be classified as germ cell mutagenic.

Carcinogenicity:

Shall not be classified as carcinogenic.

Reproductive toxicity:

Shall not be classified as a reproductive toxicant.

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Specific target organ toxicity - single

exposure:

Shall not be classified as a specific target organ toxicant

(single exposure).

Specific target organ toxicity - repeated

exposure:

Shall not be classified as a specific target organ toxicant

(repeated exposure).

Aspiration hazard:

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards:

There is no additional information.

**SECTION 12: Ecological information** 

12.1 Toxicity:

Shall not be classified as hazardous to the aquatic

environment.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
butane	106-97-8	LC50	27.98 mg/l	fish	96 h
butane	106-97-8	EC50	7.71 mg/l	algae	96 h
bioethanol	64-17-5	LC50	15,400 mg/l	fish	96 h
bioethanol	64-17-5	EC50	12,700 mg/l	fish	96 h
bioethanol	64-17-5	ErC50	22,000 mg/l	algae	96 h
propane	74-98-6	LC50	27.98 mg/l	fish	96 h
propane	74-98-6	EC50	7.71 mg/l	algae	96 h
isobutane	75-28-5	LC50	49.9 mg/l	fish	96 h
isobutane	75-28-5	EC50	19.37 mg/l	algae	96 h

Aquatic toxici	ity (chronic) of c	omponents of the	mixture		
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
bioethanol	64-17-5	EC50	22.6 g/l	algae	10 d
bioethanol	64-17-5	LC50	1,806 mg/l	aquatic invertebrates	10 d
bioethanol	64-17-5	ErC50	675 mg/l	algae	4 d

12.2 Persistence and degradability:

Data are not available.

12.3 Bioaccumulative potential:

Data are not available.

Bioaccumulative potential of components of the mixture					
Name of substance	CAS No	BCF	Log KOW	BOD5/COD	
butane	106-97-8		1.09 (pH value: 7, 20 °C)		
bioethanol	64-17-5		-0.77	0.6211	
propane	74-98-6		1.09 (pH value: 7, 20 °C)		
isobutane	75-28-5		1.09 (pH value: 7, 20 °C)		

12.4 Mobility in soil:

Data are not available.

12.5 Results of PBT and vPvB assessment:

Data are not available.

12.6 Endocrine disrupting properties:

Information on this property is not available.

12.7 Other adverse effects:

Data are not available.

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#### **SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:** The disposal by sewage disposal systems is generally not

allowed.

Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment.

Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings: It is a dangerous waste; only packagings which are approved

(e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same

way as the substance itself.

Remarks: Please consider the relevant national or regional provisions.

Waste shall be separated into the categories that can be handled separately by the local or national waste management

facilities.

**SECTION 14: Transport information** 

14.1 UN-Number

 ADR/RID/ADN:
 UN 1950

 IMDG-Code:
 UN 1950

 ICAO-TI:
 UN 1950

14.2 UN proper shipping name

ADR/RID/ADN: AEROSOLS IMDG-Code: AEROSOLS

ICAO-TI: Aerosols, flammable

14.3 Transport hazard class(es)

 ADR/RID/ADN:
 2 (2.1)

 IMDG-Code:
 2.1

 ICAO-TI:
 2.1

**14.4 Packaging group:** not assigned

**14.5 Environmental hazards:** non-environmentally hazardous acc. to the dangerous

goods regulations

**14.6 Special precautions for user:** Provisions for dangerous goods (ADR) should be complied

within the premises.

14.7 Maritime transport in bulk according to

IMO instruments:

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional

information

Classification code: 5F Danger label(s): 2.1



Special provisions (SP): 190, 327, 344, 625

Excepted quantities (EQ):

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Limited quantities (LQ): 1 L
Transport category (TC): 2
Tunnel restriction code (TRC): D

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant: Danger label(s): 2.1



Special provisions (SP): 190, 327, 344, 625

Excepted quantities (EQ):

Limited quantities (LQ)

Transport category (TC)

Tunnel restriction code (TRC):

D

## International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant: Danger label(s): 2.1



Special provisions (SP): 63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ): E0
Limited quantities (LQ): 1 L
EmS: F-D, S-U
Stowage category: -

## International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s): 2.1



Special provisions (SP): A145, A167

Excepted quantities (EQ): E0
Limited quantities (LQ): 30 kg

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

List of substances subject to none of the ingredients are listed

authorisation (REACH, Annex XIV) / SVHC

- candidate list:

#### Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol: extremely flammable

Labelling: Pressurized container: may burst if heated. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures

Protect from sumight. Do not expose to tempe

exceeding 50 °C/122 °F.

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15.2 Chemical Safety Assessment:

Chemical safety assessments for substances in this mixture

were not carried out.

**SECTION 16: Other information** 

Abbreviations and acronyms

ADN Accord européen relatif au transport international des marchandises dangereuses par

voies de navigation intérieures (European Agreement concerning the International

Carriage of Dangerous Goods by Inland Waterways)

ADR Accord européen relatif au transport international des marchandises dangereuses par

route (European Agreement concerning the International Carriage of Dangerous Goods

by Road)

Hazardous to the aquatic environment - chronic hazard **Aquatic Chronic** 

ATE Acute Toxicity Estimate Bioconcentration factor **BCF** 

BOD Biochemical Oxygen Demand

CAS Chemical Abstracts Service (service that maintains the most comprehensive list of

chemical substances)

Ceiling-C Ceiling-C Ceiling value

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures

COD Chemical oxygen demand

Dangerous Goods Regulations (see IATA/DGR) DGR

**DNEL** Derived No-Effect Level

EC50 Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested

substance causing 50 % changes in response (e.g. on growth) during a specified time

interval

The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC No

EC number, an identifier of substances commercially available within the EU (European

Union)

EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-

licence/)

**EINECS** European Inventory of Existing Commercial Chemical Substances

**ELINCS** European List of Notified Chemical Substances

EmS **Emergency Schedule** 

ErC50 in this method, that concentration of test substance which results in a 50 % reduction in

either growth (EbC50) or growth rate (ErC50) relative to the control

Seriously damaging to the eye Eye Dam.

Irritant to the eye Eye Irrit. Flam. Gas Flammable gas Flammable liquid Flam. Liq.

**GHS** Globally Harmonized System of Classification and Labelling of Chemicals" developed by

the United Nations

IATA International Air Transport Association

Dangerous Goods Regulations (DGR) for the air transport (IATA) IATA/DGR

**ICAO** International Civil Aviation Organization

ICAO-TI Technical instructions for the safe transport of dangerous goods by air

International Maritime Dangerous Goods Code **IMDG** International Maritime Dangerous Goods Code IMDG-Code

index No The Index number is the identification code given to the substance in Part 3 of Annex VI

to Regulation (EC) No 1272/2008

Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested LC50

substance causing 50 % lethality during a specified time interval

LGK Lagerklasse (storage class according to TRGS 510, Germany)

log KOW n-Octanol/water NLP No-Longer Polymer

**PBT** Persistent, Bioaccumulative and Toxic

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PNEC Predicted No-Effect Concentration

ppm Parts per million
Press. Gas Gas under pressure

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport International ferroviaire des marchandises

Dangereuses (Regulations concerning the International carriage of Dangerous goods by

Rail)

STEL Short-term exposure limit

SVHC Substance of Very High Concern

TRGS Technische Regeln für GefahrStoffe (technical rules for hazardous substances,

Germany)

TWA Time-weighted average

vPvB Very Persistent and very Bioaccumulative

WEL Workplace exposure limit

## Key literature references and sources for

data.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No.

1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR)

for the air transport (IATA).

#### Classification procedure:

Physical and chemical properties: The classification is based

on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the

mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
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.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Disclaimer:** This information is based upon the present state of our knowledge. This SDS has been

compiled and is solely intended for this product.