SAFETY DATA SHEET

Issuing Date 25-Aug-2009 Revision Date 25-Jun-2013 Revision Number 1

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Preva

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

Recommended Use Propellant, (For Paint dispensing)

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

 Company
 Supplier

 Chicago Aerosol
 Paul Roche

 1300 North St
 60 The Major Lane

 Coal City, IL
 Dungannon Bt71 7fg

 60416
 United Kingdon

 TEL: 815-634-5100
 TEL: 44 28 877 89497

For further information, please contact

Contact person Paul Roche

E-mail Address proche@legacy.com

1.4. Emergency telephone number

 Emergency Telephone
 Chemtrec 1-800-424-9300

 Number
 001-703-527-3887 (EU)

Europe 112

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Physical Hazards

Gases under pressure	Compressed gas
Flammable gases	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s) F - Highly flammable F+ - Extremely flammable

R-code(s) F+;R12 - F;R11

2.2. Label Elements



Signal Word Danger

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Hazard Statements

H280 - Contains gas under pressure; may explode if heated

H220 - Extremely flammable gas

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P377 - Leaking gas fire: do not extinguish, unless leak can be stopped safely

P381 - Eliminate all ignition sources if safe to do so

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

2.3. Other information

May cause asphyxiation in high concentrations

Section 3. Composition/information on ingredients

3.1. Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Dimethyl ether	204-065-8	115-10-6	50	F+;R12	Press. Gas Flam. Gas 1 (H220)	No data available
Isobutane	200-857-2	75-28-5	28.5	F+;R12	Press. Gas Flam. Gas 1 (H220)	No data available
Propane	200-827-9	74-98-6	21.5	F+; R12	Press. Gas Flam. Gas 1 (H220)	No data available

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

Section 4. First aid measures

4.1. Description of first-aid measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off immediately with plenty of water. In case of contact with liquefied gas, thaw

frosted parts with lukewarm water. If skin irritation persists, call a physician.

Ingestion Not an expected route of exposure.

Inhalation Immediate medical attention is required. Move victim to fresh air. Administer oxygen if

breathing is difficult and you are trained. If breathing has stopped, contact emergency

medical services immediately.

Protection of First-aiders Remove all sources of ignition.

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

Most Important Symptoms/Effects Difficulty in breathing. Drowsiness. Dizziness.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical or CO₂. Water spray, fog or regular foam. Damaged cylinders should be handled only by specialists.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Vapors may form explosive mixtures with air. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.) Vapors may travel to source of ignition and flash back. Continue to cool fire exposed cylinders until flames are extinguished. Cylinders exposed to fire may vent and release flammable gas through pressure relief devices. Ruptured cylinders may rocket.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

Isolate area until gas has dispersed. Suppress vapors with water spray.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Do not breathe vapors or spray mist. Contents under pressure.

Hygiene Measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

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Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Dimethyl ether 115-10-6	TWA 1000 ppm TWA 1920 mg/m ³	STEL: 500 ppm STEL: 958 mg/m³ TWA: 400 ppm TWA: 766 mg/m³	VME: 1000 ppm VME: 1920 mg/m³	VLA-ED: 1000 ppm VLA-ED: 1920 mg/m ³	MAK: 1000 ppm MAK: 1900 mg/m³ Ceiling / Peak: 8000 ppm Ceiling / Peak: 15200 mg/m³ TWA: 1000 ppm TWA: 1900 mg/m³
Isobutane 75-28-5				VLA-ED: 1000 ppm	MAK: 1000 ppm MAK: 2400 mg/m³ Ceiling / Peak: 4000 ppm Ceiling / Peak: 9600 mg/m³ TWA: 1000 ppm TWA: 2400 mg/m³
Propane 74-98-6				VLA-ED: 1000 ppm	MAK: 1000 ppm MAK: 1800 mg/m³ Ceiling / Peak: 4000 ppm Ceiling / Peak: 7200 mg/m³ TWA: 1000 ppm TWA: 1800 mg/m³
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m ³		STEL: 1500 mg/m ³ TWA: 950 mg/m ³	TWA: 1000 ppm TWA: 2000 mg/m ³	TWA: 1000 ppm TWA: 1885 mg/m ³
Isobutane 75-28-5		TWA: 1000 ppm	-	TWA: 800 ppm TWA: 1900 mg/m ³ STEL: 1000 ppm STEL: 2400 mg/m ³	
Propane 74-98-6		TWA: 1000 ppm		TWA: 800 ppm TWA: 1500 mg/m³ STEL: 1100 ppm STEL: 2000 mg/m³	TWA: 1000 ppm TWA: 1800 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl ether 115-10-6	STEL 2000 ppm STEL 3820 mg/m ³ MAK: 1000 ppm MAK: 1910 mg/m ³	MAK: 1000 ppm MAK: 1910 mg/m ³	NDS: 1000 mg/m ³	TWA: 200 ppm TWA: 384 mg/m³ STEL: 250 ppm STEL: 480 mg/m³	TWA: 1000 ppm TWA: 1920 mg/m ³
Isobutane 75-28-5	STEL 1600 ppm STEL 3800 mg/m ³ MAK: 800 ppm MAK: 1900 mg/m ³	MAK: 800 ppm MAK: 1900 mg/m ³			
Propane 74-98-6	STEL 2000 ppm STEL 3600 mg/m ³ MAK: 1000 ppm MAK: 1800 mg/m ³	STEL: 4000 ppm STEL: 7200 mg/m ³ MAK: 1000 ppm MAK: 1800 mg/m ³	NDS: 1800 mg/m ³	TWA: 500 ppm TWA: 900 mg/m ³ STEL: 625 ppm STEL: 1125 mg/m ³	

Derived No Effect Level

No information available

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Predicted No Effect Concentration

No information available.

(PNEC)

8.2. Exposure controls

Engineering Measures Personal protective equipment Eyewash stations. Showers. Explosion proof ventilation systems.

Eye Protection Safety glasses with side-shields. **Skin and Body Protection** Antistatic boots. Wear fire/flame resistant/retardant clothing. Impervious gloves.

Hand Protection

Neoprene gloves **Respiratory Protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. Wear a positive-pressure supplied-air respirator

None known None known

None known

None known

None known

None known

None known

None known

None known

None known

None known

None known

None known

None known

Estimated

Respiratory protection complying with EN 143.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Colorless Aerosol. **Appearance**

Slight ethereal. Odor

Remarks/ - Method Property Values No data available None known

No data available

Melting Point/Range No data available **Boiling Point/Boiling Range** -42.2 to -11.7 °C -104 °C / -155 °F Flash Point No data available **Evaporation rate** No data available Flammability (solid, gas)

Vapor Pressure No data available **Vapor Density** No data available **Relative Density** No data available **Specific Gravity** 0.6 3.5% Water Solubility No data available Solubility in other solvents Partition coefficient: n-octanol/waterNo data available **Autoignition Temperature** No data available

Viscosity No data available **Explosive Properties** No information available **Oxidizing Properties** No information available

9.2. Other information

Decomposition Temperature

VOC Content (%) No information 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

None under normal processing.

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10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents. Halogens. Strong acids. Aluminum hydride Aluminum lithium hydride

10.6. Hazardous decomposition products

Formaldehyde. Carbon monoxide (CO). Carbon dioxide (CO₂).

Section 11. Toxicological information

11.1.

Acute Toxicity

Product Information Harmful by inhalation.

Inhalation May be harmful if inhaled. May cause central nervous system depression with nausea,

headache, dizziness, vomiting, and incoordination.

Eye Contact May cause irritation.

Skin Contact Contact with product may cause frostbite Not an expected route of exposure. Ingestion

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl ether			= 308.5 mg/L (Rat) 4 h
Isobutane			= 658 mg/L (Rat) 4 h
Propane		-	= 658 mg/L (Rat) 4 h

Sensitization No information available. **Mutagenic Effects** No information available.

Carcinogenic Effects The classification below applies only to isobutane that contains >= 0.1 butadiene.

Chemical Name	EU Annex I Carcinogen Information	UK
Isobutane		X

Reproductive Toxicity No information available. **Developmental Toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

Central nervous system (CNS). Heart. **Target Organ Effects**

Aspiration Hazard No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

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Bioaccumulation is unlikely

Chemical Name	Log Pow
Dimethyl ether	-0.18
Isobutane	2.88
Propane	2.3

12.4. Mobility in soil

Spillage unlikely to penetrate soil

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused **Products**

Can be disposed as waste water, when in compliance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations. Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Pressurized container: Do not pierce or burn, even after use.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number UN2037 14.2. Proper Shipping Name Gas cartridges 14.3. Hazard Class

Subsidiary Class

14.4. Packing Group Not applicable

Description UN2037, Gas cartridges, 2.2, (-104°C c.c.)

14.5. Marine Pollutant None. 14.6. Special Provisions None. EmS No. F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

No information available.

RID

14.1. UN-Number UN2037 14.2. Proper Shipping Name Gas cartridges

14.3. Hazard Class ADR/RID-Labels

14.4. Packing Group Not applicable

UN2037, Gas cartridges, 2.2 Description

14.5. Environmental hazard None. 14.6. Special Provisions None. **Classification Code** 5A

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ADR

14.1. UN-Number UN2037 **14.2. Proper Shipping Name** UN2037 Gas cartridges

14.3. Hazard Class 2 ADR/RID-Labels 2.2

14.4. Packing Group Not applicable

Description UN2037, Gas cartridges, 2.2, (E)

14.5. Environmental hazardNone.14.6. Special ProvisionsNone.Classification Code5ATunnel Restriction Code(E)

ICAO

14.1.UN-NumberUN203714.2.Proper shipping nameGas cartridges14.3.Hazard Class2.214.4.Packing GroupNot applicable

Description UN2037, Gas cartridges, 2.2

14.5. Environmental hazard None. **14.6. Special Provisions** None.

<u>IATA</u>

14.1.UN-NumberUN203714.2.Proper Shipping NameGas cartridges

14.3. Hazard Class 2.2

14.4. Packing Group Not applicable

Description UN2037, Gas cartridges, 2.2

14.5. Environmental hazardNone.14.6. Special ProvisionsA112ERG Code10L

Section 15. Regulatory information

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

International Inventories

Complies **TSCA EINECS/ELINCS** Complies DSL/NDSL Complies **PICCS** Complies Complies **ENCS IECSC** Complies AICS Complies **KECL** Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

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No information available

Section 16. Other information

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

R11 - Highly flammable

R12 - Extremely flammable

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

H220 - Extremely flammable gas

Key literature references and sources for data

www.ChemADVISOR.com/

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Revision Note (M)SDS sections updated: 14.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

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End of Safety Data Sheet