

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1. Product identifier

Product name: Paracoat Cold Polyurea PU Primer

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

Identified uses: Liquid Primer.

Uses advised against: Uses other than those recommended.

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Eye Irrit. 2: Causes serious eye irritation.

Flam. Liq. 2: Highly flammable liquid and vapour.

STOT SE 3: May cause drowsiness or dizziness.

2.2. Labels elements

Classification (EC 1272/2008)

Pictogram



Signal word: Danger.

Hazard statements: H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 In case of fire: Use dry powder or dry sand to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

Contains: Isopropanol, isopropyl alcohol, propan-2-ol.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

2.3. Other hazards

In normal use conditions and in its original form, the product itself does not involve any other risk to health or the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*) Classification - Regulation (EC) No 1272/2008	
			Classification	Specific concentration limit
Index No: 603-117-00-0 CAS No: 67-63-0 EC No: 200-661-7 Registration No: 012119457558-25-XXXX	[1] Isopropanol, isopropyl alcohol, propan-2- ol	20 - 100 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-

(*) The complete text of the H phrases is given in section 16 of this Health and Safety Data Sheet

[1] Substance with a Community workplace exposure limit (see section 8.1).

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In case of doubt or when symptoms of feeling unwell persist, seek medical attention. Never administer anything orally to persons who are unconscious.

Inhalation:

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Ingestion:

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

Skin contact:

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Eye contact:

If wearing contact lenses, remove them. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

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

Irritant product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

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

In case of doubt or when symptoms of feeling unwell persist, seek medical attention. Never administer anything orally to persons who are unconscious.

5. FIREFIGHTING MEASURES

The product is highly flammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1. Extinguishing media

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

5.2. Special hazards arising from the substance or mixture

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3. Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Special protective equipment for firefighters: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2. Environmental precautions

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3. Methods and material for containment and cleaning up

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4. Reference to other sections

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2. Conditions for safe storage, including any incompatibilities

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills. Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
P5b	FLAMMABLE LIQUIDS	50	200

7.3. Specific end use(s)

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
Isopropanol, isopropyl alcohol, propan-2ol	67-63-0	European Union [1]	Eight hours	400	999
			Short term	500	1250

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive. The product does NOT contain substances with Biological Limit Values.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Isopropanol, isopropyl alcohol, propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	500 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	89 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	888 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	319 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	26 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Type
Isopropanol, isopropyl alcohol, propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	aqua (freshwater)	140.9 (mg/L)
	aqua (marine water)	140.9 (mg/L)
	aqua (intermittent releases)	140.9 (mg/L)
	sediment (freshwater)	552 (mg/kg sediment dw)
	sediment (marine water)	552 (mg/kg sediment dw)
	Soil	28 (mg/kg soil dw)
	PNEC STP	2251 (mg/L)
	PNEC oral (Hazard for predators)	160 (mg/kg food)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

8.2. Exposure controls

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.


Concentration	100%	
Uses	Liquid Primer	
Breather protection		
PPE	Filter mask for protection against gases and particles.	
Characteristics	CE marking, category 3. The mask must have a wide field of vision and anatomically designed form in order to be seal and watertight.	
CEN Standards	EN 136, EN 140, EN 405.	
Maintenance	Should not be stored in places exposed to high temperature and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.	
Observations	Read carefully the manufacturer's instruction regarding the equipment use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk. (particles and aerosols: P1-P2-P3, gases and vapours A-B-E-K-AX, changing them as advised by the manufacturer. Filter type needed: A2	
Hand protection		
PPE	Protective gloves against chemicals.	
Characteristics	CE marking, category 3.	
CEN Standards	EN 374-1, EN374-2, EN 374-3, EN 420.	
Maintenance	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.	
Observations	Gloves should be of the appropriate size and fit the user's hands well, not being too loose or too tight. Always use with clean and dry hands.	
Material: PVC (polyvinyl chloride)	Breakthrough time (min) >480	Material thickness (mm): 0.35




Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01


Eye protection

PPE	Protective goggles with built-in frame.	
Characteristics	CE marking, category 2. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.	
CEN Standards	EN 165, EN 166, EN 167, EN 168.	
Maintenance	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.	
Observations	Some signs of wear and tear including: yellow colouring of the lenses, superficial scratching of the lenses and scraping e.c.t	

Skin protection

PPE	Anti-static protective clothing.	
Characteristics	CE marking, category 2. Protective clothing should not be too tight or loose in order not to obstruct the user's movement.	
CEN Standards	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5	
Maintenance	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.	
Observations	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.	

Footwear Protection

PPE	Anti-static safety footwear.	
Characteristics	CE marking, category 2.	
CEN Standards	EN ISO 13287, EN ISO 20344, EN ISO 20346.	
Maintenance	The footwear should be checked regularly.	
Observations	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.	

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Translucent liquid with characteristic odour.
Colour:	Colourless
Odour:	Alcohol.
Odour threshold:	N.A./N.A.
pH:	Not determined.
Melting point:	Not determined.
Boiling Point:	82 °C.
Flash point:	12 °C.
Evaporation rate:	1.2 (butyl acetate=1).
Flammability (solid, gas):	Very flammable.
Lower Explosive Limit:	2%.
Upper Explosive Limit:	N.A./N.A.
Vapour pressure:	4.3 kPa at 20 °C.
Vapour density:	>1 (air=1).
Relative density:	0.78 g/cm ³ .
Solubility:	Water and some organic solvents.
Liposolubility:	Not determined.
Hydrosolubility:	soluble.
Partition coefficient (n-octanol/water):	0.05.
Auto-ignition temperature:	N.A./N.A.
Decomposition temperature:	N.A./N.A.
Viscosity:	3 mPa.s.
Explosive properties:	vapours may form explosive mixtures.
Oxidizing properties:	Not determined.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product.

9.2. Other information

Pour point:	Not determined.
Flash point:	425 °C.
Kinematic viscosity:	2.65.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

10. STABILITY AND REACTIONS

10.1. Reactivity

The product does not present hazards by their reactivity.

10.2. Chemical stability

Unstable in contact with:

- Acids.
- Bases.
- Oxidizing agents.

10.3. Possibility of hazardous reactions

In certain conditions this may cause a polymerization reaction.

10.4. Conditions to avoid

Avoid the following conditions:

- Heating.
- High temperature.
- Contact with incompatible materials.

10.5. Incompatible materials

Avoid the following materials:

- Acids.
- Bases.
- Oxidizing agents.

10.6. Hazardous decomposition products

Depending on conditions of use, can be generated the following products:

- Cox (carbon oxides).
- Organic compounds.

11. TOXICOLOGICAL INFORMATION

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

IRRITANT PREPARATION. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

11.1. Information on toxicological effects

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

- a) acute toxicity;
Not conclusive data for classification.
- b) Skin corrosion/irritation;
Not conclusive data for classification.
- c) Serious eye damage/irritation;
Product classified: Eye irritation, Category 2: Causes serious eye irritation.
- d) Respiratory or skin sensitisation;
Not conclusive data for classification.
- e) Germ cell mutagenicity;
Not conclusive data for classification.
- f) Carcinogenicity;
Not conclusive data for classification.
- g) Reproductive toxicity;
Not conclusive data for classification.
- h) STOT-single exposure;
- i) Specific target organ toxicity following a single exposure, Category 3:
- i) STOT-repeated exposure;
Based on available data, the classification criteria are not met.
- j) Aspiration hazard;
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No information is available regarding the ecotoxicity of the substances present.

12.2. Persistence and degradability

No information is available about persistence and degradability of the product.

12.3. Bioaccumulative potential

Information regarding the bioaccumulation of the substances present.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
Isopropanol, isopropyl alcohol propan-2-ol N. CAS: 67-63-0 EC No: 200-661-7	0.05	-	-	High

12.4. Mobility in soil

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

12.5. Results of PBT and vPvB Assessment

No information is available about the results of PBT and vPvB assessment of the product.

12.6. Other adverse effects

No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.

14. TRANSPORT INFORMATION

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID. Transport documentation: Consignment note and written instructions.

Sea: Transport by ship: IMDG. Transport documentation: Bill of landing.

Air: Transport by plane: ICAO/IATA. Transport document: Airway bill.

14.1. UN number

UN No: UN1993.

14.2. UN proper shipping name

Description:

ADR: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL, ISOPROPYL ALCOHOL, PROPAN-2-OL), 3, PG II, (D/E).

IMDG: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL, ISOPROPYL ALCOHOL, PROPAN-2-OL), 3, PG II (12oC).

ICAO: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL, ISOPROPYL ALCOHOL, PROPAN-2-OL), 3, PG II.

14.3. Transport hazard class(es)

Class(es): 3.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

14.4. Packing group

Packing Group III.

14.5. Environmental hazards

Marine pollutant: No.

14.6. Special precautions for user

Labels: 3.



Hazard number: 33.

ADR LQ: 1 L

IMDG LQ: 1 L

ICAO LQ: 31 kg B

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm - Emergency sheets (F - Fire, S - Spills): F-E,S-E Proceed in accordance with point 6.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The product is not transported in bulk.

15. REGULATORY INFORMATION

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 99 %.

VOC content: 860 g/l.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5b.

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

Complete text of the H phrases that appear in section 3:

H225 Highly flammable liquid and vapour.

Paracoat Cold Polyurea PU Primer

Product Ref: (HSDSPC09-0219)
Issue No: 01

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Classification codes:

Eye Irrit. 2: Eye irritation, Category 2.
Flam. Liq. 2: Flammable liquid, Category 2.
STOT SE 3: Specific target organ toxicity following a single exposure, Category 3.

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF: Bioconcentration factor.
CEN: European Committee for standardisation.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data: <http://eur-lex.europa.eu/homepage.html> <http://echa.europa.eu/> Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

This document is only a guide.

Langley Waterproofing Systems Ltd reserves the right to change the composition and fixing recommendations of products as a result of the evolution of knowledge and technology.