



Safety Data Sheet

according to WHMIS 2023 and HCS 2024

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Date of issue 04/25/2025

Version number 3.01

Revision: 04/25/2025

1 Identification

· Product identifier

· Trade name: 4200UV

- Other Means of Identification: UV Curable Conformal Coating
- Related Part Number: 4200UV-Liquid, 4200UV-945ML, 4200UV-3.78L

· Application of the substance / the mixture Conformal Coating

· Uses advised against For industrial use only

· Details of the supplier of the safety data sheet

Manufacturer/Supplier:

MG Chemicals (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 800-340-0772
+(1) 905-331-1396
info@mgchemicals.com

Distributor:

Masline
511 Clinton Ave S
Rochester, New York 14620
United States
+(1) 586-546-5373

· Information department: sds@mgchemicals.com

· Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

* 2 Hazard identification

· Classification of the substance or mixture

Flammable liquids – Category 4	H227 Combustible liquid.
Eye damage/irritation – Category 1	H318 Causes serious eye damage.
Sensitization - skin – Category 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms



GHS05 GHS07 GHS09

Signal word Danger

Hazard-determining components of labeling:

isobornyl acrylate
n-butyl acetate
pentaerythritol triacrylate

Hazard statements

H227 Combustible liquid.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing fumes, vapors or spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P333+P313 If skin irritation or rash occurs: Get medical advice.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
P391 Collect spillage.
P403 Store in a well-ventilated place.
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

Other hazards Repeated exposure may cause skin dryness or cracking.

3 Composition/Information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

5888-33-5	isobornyl acrylate	52% w/w
	Isocyanatoacrylate	31% w/w

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123-86-4	n-butyl acetate	4% w/w
3524-68-3	pentaerythritol triacrylate	3% w/w
4986-89-4	pentaerythritol tetraacrylate	2% w/w

· **Additional information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

HMIRA claim filed 2019/08/16, RN: 3339191

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

If feeling unwell: Call a POISON CENTRE or doctor.

· **After skin contact:**

Wash with plenty water.

If skin irritation or rash occurs: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

· **After eye contact:**

Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

· **After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

If symptoms persist consult doctor.

· **Information for doctor:** Treat symptomatically

· **Most important symptoms and effects, both acute and delayed**

See section 11 for additional information.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture**

Prevent fire-fighting wash from entering waterway or sewer system.

· **Hazardous combustion products:**

Carbon Oxides (CO_x)

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other toxic fumes

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- **Advice for firefighters**

- **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Remove or keep away all sources of extreme heat or open flames.

Do not breathe fumes, mist or vapors.

- **Environmental precautions:**

Avoid release to the environment.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect liquid in a sealable, chemical-resistant container.

Wash residue with a paper towel and place dirty towels in container.

Use soap and water to remove the last traces of residue.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**

Prevent formation of aerosols.

Wear protective gloves and eye protection.

Wash hands and exposed skin thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Contaminated work clothing should not be allowed out of the workplace.

Keep out of reach of children.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

- Keep in a dry and clean area, away from incompatible substances

- Store in a well-ventilated place. Keep cool.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

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· **Specific end use(s)** See section 1.2

8 Exposure controls/ Personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate	
EL (Canada)	STEL: 150 ppm TWA: 50 ppm
EV (Canada)	STEL: 950 mg/m ³ , 200 ppm TWA: 710 mg/m ³ , 150 ppm
PEL (USA)	TWA: 710 mg/m ³ , 150 ppm
REL (USA)	STEL: 950 mg/m ³ , 200 ppm TWA: 710 mg/m ³ , 150 ppm
TLV (USA)	STEL: 712 mg/m ³ , 150 ppm TWA: 238 mg/m ³ , 50 ppm
3524-68-3 pentaerythritol triacrylate	
WEEL (USA)	TWA: 1 mg/m ³ DSEN

· Additional information:

The lists that were valid during the creation were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· Exposure controls

· **Appropriate engineering controls** Keep airborne concentrations below exposure limits.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Advice should be sought from respiratory protection specialists.
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· Physical state	Liquid
· Form:	Viscous
· Color:	Amber colored
· Odor:	Slightly acrylic
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	≥ 127 °C (≥ 260.6 °F)
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	1 Vol %
· Upper:	8 Vol %
· Flash point:	68 °C (154.4 °F)
· Auto igniting:	Not determined
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic at 20 °C (68 °F):	> 20.5 mm ² /s
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Vapor pressure:	
· Relative density at 25 °C (77 °F):	1.06
· Vapor density (air=1):	> 1

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· Particle characteristics	Not applicable.
· Other information	
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Solvent content:	
· Organic solvents:	4.55–6.1 %
· Solids content:	48.0 %
· Evaporation rate	Not determined.

* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
- **Incompatible materials:**
Strong oxidizing agents
Strong acids
alkali
Water
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Hazardous combustion products: see section 5.

* 11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
123-86-4 n-butyl acetate		
Oral	LD50	>10,768 mg/kg (rat)
Dermal	LD50	>17,600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/L (rat)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.

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- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:**
Sensitization possible through skin contact.
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure**
Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of effects and symptoms by route of exposure**
 - **Eyes:**
swelling
redness
eye damage, pain
 - **Skin:**
rash, allergic contact dermatitis
redness, irritation
dry skin
 - **Inhalation:**
cough
sore throat
headache
irritation of the respiratory tract
dizziness or drowsiness
 - **Swallowed:**
nausea
abdominal pain
diarrhea
vomiting
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Prolonged or repeated exposure may cause skin allergies.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
· NTP (National Toxicology Program)
None of the ingredients is listed.

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12 Ecological information

· Toxicity

· Aquatic toxicity:

Very toxic to aquatic life with long lasting effect.
Avoid release to the environment.
Collect spillage.

123-86-4 n-butyl acetate

LC50 96h | 18 mg/L (minnow)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· **Recommendation:** This material and its container must be disposed of as hazardous waste.

· Uncleaned packagings:

· Recommendation:

Containers may still present a chemical hazard/ danger when empty.
Dispose of contents in accordance with all local, regional, national, and international regulations.
Where possible retain label warnings and SDS and observe all notices pertaining to the product.

14 Transport information

· UN-Number

· DOT/TDG, IMDG, IATA

UN3082

· UN proper shipping name

· DOT/TDG

NOT REGULATED by DOT
Environmentally hazardous substance, liquid, n.o.s.
(isobornyl acrylate)

· IMDG

NOT REGULATED by Sea IMDG per 2.10.2.7 for sizes 5L or less.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (isobornyl acrylate), MARINE POLLUTANT
NOT REGULATED by Air IATA Special Provision A197 for sizes 5L or less.

· IATA

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Environmentally hazardous substance, liquid, n.o.s. (isobornyl acrylate)	
Transport hazard class(es) DOT/TDG, IATA  Class 9 Miscellaneous dangerous substances and articles Label 9	
IMDG  Class 9 Miscellaneous dangerous substances and articles Label 9	
Packing group DOT/TDG, IMDG, IATA III	
Environmental hazards: Marine pollutant: MARINE POLLUTANT Special marking (IATA): ENVIRONMENTALLY HAZARDOUS Symbol (fish and tree)	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.	
Transport/Additional information: DOT/TDG Quantity limitations On passenger aircraft/rail: 450 L On cargo aircraft only: 450 L Remarks: Special marking with the symbol (fish and tree).	
IMDG Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
Special precautions for user Not applicable. Hazard identification number (Kemler code): 90 EMS Number: F-A,S-F Stowage Category A	

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- **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOBORNYL ACRYLATE), 9, III

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **OSHA Hazard Communication Standard (29 CFR Part 1900)**

The safety data sheet and label comply with HCS 2024.

- **Hazardous Products Act (R.S.C., 1985, c. H-3)**

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

5888-33-5	isobornyl acrylate	ACTIVE
123-86-4	n-butyl acetate	ACTIVE
3524-68-3	pentaerythritol triacrylate	ACTIVE
4986-89-4	pentaerythritol tetraacrylate	ACTIVE

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **TLV (Threshold Limit Value)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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· Canadian substance listings:

· Canadian Domestic Substances List (DSL)	
5888-33-5	isobornyl acrylate
123-86-4	n-butyl acetate
3524-68-3	pentaerythritol triacrylate
4986-89-4	pentaerythritol tetraacrylate
· Canadian Non-Domestic Substances List (NDSL)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%)	
123-86-4	n-butyl acetate

· HMIS-ratings (scale 0 - 4)

Health = *2

Fire = 2

Reactivity = 0

· Europe

· RoHS (Restriction of Hazardous Substances Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

· WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Date of previous version** 05/17/2024

· **Version number of previous version:** 3.00

· **Date of preparation** 04/25/2025

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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NIOSH: National Institute for Occupational Safety

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· * **Data compared to the previous version altered.**

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