

Causes skin irritation
May cause respiratory irritation



Appearance Clear

Physical state Liquid

Odor Mild Ester

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing must not be allowed out of the work place
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Call a poison center/doctor if you feel unwell.

Precautionary Statements - Disposal

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Hazards not otherwise classified (HNOC)

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

This product is a mixture.
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Synonyms

DURA-UV-Hard Coat
PRO-COAT Hard Coat
UVAR Hard Coat
UVMAX Hard Coat.

Chemical Name	CAS No.	Weight-%	Trade Secret
Acrylate Oligomers	NONE	25 - 50	*
Silicone Acrylate Monomers and Oligomers	NONE	10 - 50	*
Photoinitiators	211510-16-6 442536-96-4	5 - 25	*

4. FIRST AID MEASURES

Description of first aid measures

General advice

No action shall be taken involving any personal risk or without suitable training. Get medical attention if any symptoms develop or persist.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.

Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	If swallowed, do not induce vomiting. Get medical attention immediately.
Self-protection of the first aider	First aider: Pay attention to self-protection!

Most important symptoms and effects, both acute and delayed

Symptoms	May cause an allergic skin reaction. Causes serious eye irritation. Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. May cause respiratory irritation
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂). Dry chemical. Foam. Water spray (fog).

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

May cause sensitization by inhalation and skin contact.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NO_x). Thermal decomposition can lead to release of irritating vapors.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Combustible liquid.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required. Avoid contact with skin, eyes and inhalation of vapors. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wear respiratory protection during cleanup of spills.
Other Information	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
For emergency responders	Ventilate the area. Evacuate area. Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations.

Methods for cleaning up Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, dry, well-ventilated place. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep at a temperature not exceeding 35 oC °C.

Packaging materials No information available.

Incompatible materials Oxidizers. Halogens. Acids. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines No ACGIH or OSHA PEL is assigned to this mixture.

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. A safety shower and eye wash station should be within walking distance of the work area.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear full face shield if splashing of liquid is possible.

Skin and body protection Wear protective gloves and protective clothing that is resistant to chemical penetration. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

Respiratory protection Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below the recommended exposure limits. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134).

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. A safety shower and

Oxidizers. Halogens. Acids. Bases.

Hazardous Decomposition Products

Carbon oxides. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	The product has not been tested
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye contact	Causes serious eye irritation.
Skin contact	May cause an allergic skin reaction.
Ingestion	May be harmful if swallowed. May cause gastrointestinal irritation (nausea, vomiting).

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Irritation	Irritating to eyes, respiratory system and skin.
Corrosivity	Classified.
Sensitization	This product is a sensitizer. May product an allergic reaction by inhalation or by skin contact.
Germ cell mutagenicity	Not classified.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	Not classified
Developmental Toxicity	Not classified.
Teratogenicity	Not classified.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	No information available.
Chronic toxicity	Repeated contact may cause allergic reactions in very susceptible persons.
Target Organ Effects	Skin, Eyes.
Neurological effects	No information available.
Aspiration hazard	No information available.
<u>Numerical measures of toxicity</u> -	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Minimally harmful to aquatic life.

Persistence and degradability

Readily biodegradable.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. U.S. EPA guidelines for the classifications determination are listed in 40 CFR parts 261.3. Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable local, regional, national and international laws and regulations. Empty container may contain residue. If empty container retains product residues, all label precautions must be observed. Never pierce, drill, grind, cut, saw or weld any empty container.

14. TRANSPORT INFORMATION

Note: This material is not subject to regulation as a hazardous material for shipping

DOT Not regulated.

TDG Not regulated.

MEX Not regulated.

ICAO (air) Not regulated.

IATA Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt.

DSL/NDSL All of the components of this product are listed on the DSL.

This product contains a substance regulated by Environment Canada under a Significant New Activity restriction (SNAc) SNAc# 13028, 13029. The Minister of the Environment must be notified as outlined in the SNAc prior to engaging in any new activity. See SNAc Notice in Canada Gazette for further details.

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals: Formaldehyde, Methacrylic Acid, Epichlorohydrin in trace amounts.

U.S. State Right-to-Know Regulations**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

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Revision Note

No information available

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End of Safety Data Sheet