



SAFETY DATA SHEET

Revision date 15-Jun-2017

Version 5

Supersedes Date: 10-Jun-2017

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name SLOW HS CLEAR ACTIVATOR
Product Code AD-54816.HP1
UN/ID no UN1263
Recommended Use Paint, Coatings

Details of the supplier of the safety data sheet

See section 16 for more information

ADVANTAGE REFINISH PRODUCTS
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Section 2: HAZARDS IDENTIFICATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

Classification

| | |
|--|-------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 1B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable liquids | Category 3 |

Label elements



Signal word

DANGER

HAZARD STATEMENTS

Flammable liquid and vapor

Harmful if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

May cause respiratory irritation

PREVENTION

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

RESPONSE

IF exposed or concerned: Get medical advice/attention.

Eyes

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.

Skin

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction.

STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

DISPOSAL

Dispose of contents/containers in accordance with local regulations.

OTHER HAZARDS

Not applicable.

UNKNOWN ACUTE TOXICITY

0% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | weight-% |
|--|------------|----------|
| Hexamethylene diisocyanate homopolymer | 28182-81-2 | 40 - 45 |
| Isophoronediiisocyanate, Homopolymer | 53880-05-0 | 30 - 35 |
| n-Butyl acetate | 123-86-4 | 5 - <10 |
| Solvent naphtha, petroleum, light aromatic | 64742-95-6 | 5 - <10 |
| Benzene, 1,2,4-trimethyl- | 95-63-6 | 3 - <5 |
| Isophorone diisocyanate | 4098-71-9 | 0.3 - <1 |

| | | |
|--------------|----------|------------|
| Cumene | 98-82-8 | 0.3 - <1 |
| Ethylbenzene | 100-41-4 | 0.1 - <0.3 |

Section 4: FIRST AID MEASURES

First Aid Measures

General advice

IF exposed or concerned: Get medical advice/attention

Eye contact

If eye irritation persists: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin Contact

Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Do NOT induce vomiting

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammable properties Combustible liquid.

flash point 115 °F / 46 °C

Upper flammability limit: No information available

Lower flammability limit: No information available

Autoignition temperature No information available

Explosion data

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

Suitable extinguishing media

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation. May cause sensitization by skin contact.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

Section 7: HANDLING AND STORAGE**General advice**

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Keep tightly closed in a dry and cool place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines****Exposure Limits**

If S* appears in the OEL table, it indicates this chemical contains a skin notation.

| Chemical Name | ACGIH TLV | Alberta | British Columbia | Ontario TWA | Quebec | OSHA PEL |
|--------------------------------------|-------------------------------|--|------------------|-------------------------------|--|--|
| n-Butyl acetate 123-86-4 | STEL: 200 ppm TWA: 150 ppm | TWA: 150 ppm TWA: 713 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 20 ppm | TWA: 150 ppm STEL: 200 ppm | TWA: 150 ppm TWA: 713 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³ | TWA: 150 ppm TWA: 710 mg/m ³ |
| Benzene, 1,2,4-trimethyl- 95-63-6 | TWA: 25 ppm | TWA: 25 ppm TWA: 123 mg/m ³ | TWA: 25 ppm | TWA: 25 ppm | TWA: 25 ppm TWA: 123 mg/m ³ | |

| | | | | | | |
|--------------------------------------|----------------|--|---|---------------------------------|--|---|
| Isophorone diisocyanate 4098-71-9 | TWA: 0.005 ppm | TWA: 0.005 ppm TWA: 0.05 mg/m ³ | TWA: 0.005 ppm Ceiling: 0.01 ppm Sensitizer | TWA: 0.005 ppm CEV: 0.02 ppm | TWA: 0.005 ppm TWA: 0.045 mg/m ³ | |
| Cumene 98-82-8 | TWA: 50 ppm | TWA: 50 ppm TWA: 246 mg/m ³ | TWA: 25 ppm STEL: 75 ppm | TWA: 50 ppm | TWA: 50 ppm TWA: 246 mg/m ³ | TWA: 50 ppm TWA: 245 mg/m ³ S* |
| Ethylbenzene 100-41-4 | TWA: 20 ppm | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ | TWA: 20 ppm | TWA: 20 ppm | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ | TWA: 100 ppm TWA: 435 mg/m ³ |

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal Protective Equipment

Eye/face protection

Tight sealing safety goggles.

Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing. Personnel should wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber.

Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Thermal Protection

No information available

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|-------------------------------|----------------------------------|
| Physical state | liquid |
| Appearance | No information available |
| Odor | Solvent |
| Color | clear |
| Odor Threshold | No information available |
| pH value | No information available |
| Melting point/freezing point | No information available |
| Boiling point / boiling range | No information available °C / °F |
| flash point | 46 °C / 115 °F |
| evaporation rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor Pressure | No information available |
| vapor density | No information available |
| Density (lbs per US gallon) | 9.02 |
| specific gravity | 1.08 |
| Solubility(ies) | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |

| | |
|----------------------------------|--------------------------|
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |
| Dynamic viscosity | No information available |

Other information

Section 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Incompatible materials | Strong oxidizing agents. |
| Conditions to avoid | Heat, flames and sparks. |
| Hazardous Decomposition Products | Carbon monoxide. Carbon dioxide (CO ₂). Chlorine gas. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous polymerization | None under normal processing. |

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact

Not applicable

Skin Contact

May cause an allergic skin reaction

Ingestion

Not applicable

Inhalation

Harmful if inhaled

May cause respiratory irritation

Numerical measures of toxicity - Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-----------------------|------------------------------|---|
| Hexamethylene diisocyanate homopolymer 28182-81-2 | - | - | = 18500 mg/m ³ (Rat) 1 h |
| Isophoronediiisocyanate, Homopolymer 53880-05-0 | - | - | - |
| n-Butyl acetate 123-86-4 | = 10768 mg/kg (Rat) | > 17600 mg/kg (Rabbit) | = 390 ppm (Rat) 4 h |
| Solvent naphtha, petroleum, light aromatic 64742-95-6 | = 8400 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | = 3400 ppm (Rat) 4 h |
| Benzene, 1,2,4-trimethyl- 95-63-6 | = 3280 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | = 18 g/m ³ (Rat) 4 h |
| Isophorone diisocyanate 4098-71-9 | = 1097 mg/kg (Rat) | 1060 - 4780 mg/kg (Rabbit) | = 0.135 mg/L (Rat) 4 h |
| Cumene 98-82-8 | = 1400 mg/kg (Rat) | = 12300 µL/kg (Rabbit) | > 3577 ppm (Rat) 6 h = 39000 mg/m ³ (Rat) 4 h |
| Ethylbenzene 100-41-4 | = 3500 mg/kg (Rat) | = 15400 mg/kg (Rabbit) | = 17.2 mg/L (Rat) 4 h |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (inhalation-dust/mist) 3.1 mg/l

ATEmix (inhalation-vapor) 23 mg/l

UNKNOWN ACUTE TOXICITY 0% of the mixture consists of ingredient(s) of unknown toxicity.

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

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--------------------------|--------------|-------------|------------------------|-------------|
| Cumene 98-82-8 | | Group 2B | Reasonably Anticipated | X |
| Ethylbenzene 100-41-4 | A3 | Group 2B | | X |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen.

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans.

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present.

| | |
|---|---|
| Skin corrosion/irritation | Not applicable |
| Serious eye damage/eye irritation | Not applicable |
| Skin sensitization | May cause an allergic skin reaction |
| Respiratory sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| Germ cell mutagenicity | Not applicable |
| Carcinogenicity | May cause cancer |
| Reproductive Toxicity | Not applicable |
| Specific target organ toxicity (single exposure) | May cause respiratory irritation |
| Specific target organ toxicity (repeated exposure) | Not applicable |
| Aspiration hazard | Not applicable |

Section 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Environmental precautions Prevent product from entering drains.

Persistence and degradability

No information available

Bioaccumulation

No information available

Mobility

No information available

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

| | | | |
|-----------------------------|-----------------------------|------------------------------|------------------------------|
| UN/ID no | <u>TDG</u> UN1263 | <u>IMDG</u> UN1263 | <u>IATA</u> UN1263 |
| Proper shipping name | Paint | Paint | Paint |
| Hazard Class | 3 | 3 | 3 |
| Packing Group | III | III | III |
| Environmental hazard | Not applicable | | |
| Special Provisions | | 163, 223, 367 955 | A3, A72, A192 |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

Section 15: REGULATORY INFORMATION

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

All components are listed or exempt from listing

DSL - Canadian Domestic Substances List

All components are listed or exempt from listing

| Chemical Name | Canada - NPRI (National Pollutant Release Inventory) |
|--|--|
| n-Butyl acetate | Part 5, Individual Substances |
| Solvent naphtha, petroleum, light aromatic | Part 5, Other Groups and Mixtures |
| Benzene, 1,2,4-trimethyl- | Part 1, Group A Substance; Part 5, Individual Substances |
| Isophorone diisocyanate | Part 1, Group A Substance |
| Cumene | Part 1, Group A Substance |
| Ethylbenzene | Part 1, Group A Substance |

Section 16: OTHER INFORMATION**HMIS**

Health hazards 2*

* = Chronic Health Hazard

Flammability 2

Physical hazards 0

Personal Protection X

Prepared By Regulatory Department

Revision date 15-Jun-2017

Revision Note No information available

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet