

Material Safety Data Sheet

Hazardous Materials Information System (HMIS) Ratings

Health = 2

Flammability = 1

Reactivity = 1

Protective Equipment = C

Revision Date 06/14/2011

Version 1 . 4

Section 1. Chemical product and company identification

Material Description : ColorBond UV SPM V5 - White (1Ltr)
Distributor Name : ITW Trans Tech
Distributor Address : 475 N. Gary Ave., Carol Stream, IL 6188, United States
24 Hour Emergency Phone : (352)323-3500
General Assistance Phone : 630.752.4000

Section 2. Hazards Identification

Physical state : liquid

OHSA/HCS Classification : Irritating material, Sensitizing material

Emergency overview : WARNING! CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. Irritating to respiratory system and skin. Defatting to the skin. May cause sensitization by skin contact. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Skin contact : Irritating to skin. May cause sensitization by skin contact.

inhalation : Irritating to respiratory system.

ingestion : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : Contains IARC 2B classified titanium dioxide (based upon dust exposure). There is no human dust exposure to titanium dioxide when using a finished ink product containing titanium dioxide.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye/face : No specific data.

skin : Adverse symptoms may include the following: irritation redness dryness cracking

inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing

ingestion : No specific data.

Medical conditions aggravated by over-exposure: Pre-existing skin disorders may be aggravated by over-exposure to this product.

Section 3. Composition / Information on Hazardous Ingredients

| Chemical name | CAS # | Weight % |
|--------------------------|------------|-------------------|
| Diacrylate Monomer | | 30.0000 - 60.0000 |
| Multi-functional Monomer | | 15.0000 - 40.0000 |
| Pigment White 6 | 13463-67-7 | 15.0000 - 40.0000 |
| Acrylate Oligomer | | 7.0000 - 13.0000 |
| Photoinitiator | | 3.0000 - 7.0000 |
| Acrylate Ester Monomer | | 3.0000 - 7.0000 |
| Photoinitiator | | 1.0000 - 5.0000 |

Section 4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Fire fighting measures

Flash point: Not Measured. Material is not expected to flash.

Fire hazard: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Extinguishing media (Suitable) : Use an extinguishing agent suitable for the surrounding fire.

Extinguishing media (Not suitable) : None known.

Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides

Section 6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Handling : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened

must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Monitoring methods and references : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Pigment White 6

| | |
|---|----------|
| ACGIHTLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level | 10 mg/m3 |
| OSHAPEL: Permissible Exposure Level total dust | 15 mg/m3 |
| NIOSH | |

Protective Equipment

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eyes. : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties

| | | |
|------------------------|--|--------------------|
| State of Matter | liquid | |
| Color | white. | |
| Density | 1.186 g/cm3 9.89 lb/gal 1186 g/l | |
| Flash point | Not Measured. Material is not expected to flash. | |
| Boiling point | Not determined. | |
| Freezing point | Not determined. | |
| Volatile. | 0.02 %(m) Weight % | 0.03 %(V) Volume % |
| VOC % | 0.02 %(m) Weight % | 0.03 %(V) Volume % |
| Coating VOC | 0 lb/gal | 0 g/l |

Section 10. Stability and reactivity

Stability : The product is stable.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

| Chemical name Test | Species | Dose | Exposure |
|---|---------|-------------|----------|
| Diacrylate Monomer Oral Toxicity dataLD50 | Rat | 5,000 mg/kg | |

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Section 12. Ecological information**Environmental effects** : No known significant effects or critical hazards.**Fate and pathway** : No known significant effects or critical hazards.

| | | | |
|-------------|--------------|------------|-----|
| Fresh water | > 1,000 mg/l | Water flea | 2 d |
| Fresh water | > 1,000 mg/l | Water flea | 2 d |
| Fresh water | > 1,000 mg/l | Water flea | 2 d |
| Fresh water | > 1,000 mg/l | Water flea | 2 d |
| Fresh water | 5.5 mg/l | Water flea | 2 d |
| Fresh water | 1 mg/l | Water flea | 2 d |
| Fresh water | 500 mg/l | Water flea | 2 d |

Section 13. Disposal considerations

Disposal considerations : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| Regulatory information | Proper shipping name | UN - Number | Hazard classification | Packing group | Additional information |
|------------------------|---|-------------|--|---------------|------------------------|
| DOT Classification | Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate) | UN3082 | Class 9: Miscellaneous hazardous material. | III | |
| ADNR | Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate) | UN3082 | Class 9: Miscellaneous hazardous material. | III | |
| ADR | Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate) | UN3082 | Class 9: Miscellaneous hazardous material. | III | |
| IATA | Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate) | UN3082 | Class 9: Miscellaneous hazardous material. | III | |
| IMDG | Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate) | UN3082 | Class 9: Miscellaneous hazardous material. | III | |

Section 15. Regulatory information**International regulations****Philippines inventory (PICCS)** : Not determined.**New Zealand Inventory of Chemicals (NZIoC)** : Not determined.**Korea inventory (KECI)** : Not determined.

Japan inventory (ISHL) : Not determined.

Japan inventory (ENCS) : Not determined.

China inventory (IECSC) : Not determined.

Australia inventory (AICS) : Not determined.

Canada. Canadian Environmental Protection Act, 1999 Part 5 Sec. 66 (1) : Not determined.

US. Toxic Substances Control Act as amended 15 U.S.C. 2606 Sec. 8 (b) : All components are listed or exempted.

United States Regulation

SARA 302/304/311/312 extremely hazardous substances

No products were found.

SARA 302/304 emergency planning and notification

No products were found.

SARA 302/304/311/312 hazardous chemicals

No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification

Multi-functional Monomer : Pigment White 6 : 13463-67-7 Acrylate Oligomer : Acrylate Ester Monomer :

SARA 313 - Form R - Reporting requirements

SARA 313 - Supplier Notification

California Prop. 65

No components present that are known to the State of California to cause cancer or reproductive harm.

| HAP (if present above 0.1 % by weight) | CASRN | Weight % | Density (lb/gal) |
|--|-------|----------|------------------|
|--|-------|----------|------------------|

Section 16. Other information

Disclaimer: To the best of our knowledge, the information provided herein is accurate. However, Trans Tech does not assume any liability whatsoever for the accuracy or completeness of this information. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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