



### 3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS#	BY %	EINECS #	EXPOSURE LIMITS IN AIR (MG/M3)				
				ACGIH	NOHSC	OSHA		
				ppm	ppm	ppm	TLV - STEL -	ES-TWA / ES-STEL / ES-PEAK -
Diurethane Dimethacrylate	72869-86-4	0 – 70	276-957-5	NA - NA	NA	NF	NF	NA - NA - NE
Urethane Aliphatic Acrylate	NA	0 – 30	NA	NA - NA	NA	NF	NF	NA - NA - NE
Ossido di Diphenyl (2,4,6-Trimethylbenzoyl)phosphine oxide	75980-60-8	0 – 5	278-355-8	NA - NA	NF	NF	NF	NA - NA - NA
Ethyl Acetate	141-78-6	0 – 5	205-500-4	NA - NA	NF	NF	NF	NA - NA - NA
Tripropyleneglycol Diacrylate	42978-66-5	0 – 5	256-032-2	NA - NA	NF	NF	NF	NA - NA - NA
Ethyl Methacrylate	97-63-2	0 – 4	202-597-5	NA - NA	NF	NF	NF	NA - NA - NA
Silica	67762-90	0 – 3	231-545-4	(10) - NA	NF	NF	NF	NA - NA - NA
Titanium Dioxide CI 77891	13463-67-7	0 – 2	236-675-5	NA - NA	NA	NF	NF	NA - NA - NE

### 4. FIRST AID MEASURES

#### 4.1 First Aid:

**INGESTION:** If ingested, do not induce vomiting! If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.

**SKIN & EYES** If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. Open and close eyelid(s) to ensure thorough irrigation. Seek immediate medical attention. If problem persists, seek immediate medical attention. If irritation occurs & product is on the skin, rinse thoroughly with lukewarm water followed by a thorough washing of the affected area with plenty of soap and water. Remove all contaminated clothing including footwear and wash thoroughly before reuse. If irritation, redness or swelling persists, consult a physician immediately.

**INHALATION:** Remove victim to fresh air at once. If breathing stops, perform artificial respiration. Seek immediate medical attention.

#### 4.2 Medical Conditions Aggravated by Exposure:

**HEALTH 1**

**FLAMMABILITY 0**

**PHYSICAL HAZARDS 0**

**PROTECTIVE EQUIPMENT B**

**EYES SKIN**

## 5. FIREFIGHTING MEASURES

**5.1** Flashpoint & Method: > 100 °C (> 212 °F)

**5.2** Autoignition Temperature: NA

**5.3** Flammability Limits: Lower Explosive Limit (LEL): NA

**5.4** Fire & Explosion Hazards: This product is slightly amammable. When involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO<sub>2</sub> and Nox)

**5.5** Extinguishing Methods: Water, Foam, CO<sub>2</sub>, Dry Chemical

**5.6** Fire Fighting Procedures: First responders should wear eye protection. Structural re ghters must wear full protective equipment and MSHA/NIOSH approved, self-contained breathing apparatus. If possible, prevent runo water from entering storm drains, bodies of water or other enviornmentally sensitive reas. If necessary, rinse contaminated equipment with soapy water before returnign to service.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1** Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For small spills (e.g., , 1 gallon [3.785 liters]) wear appropriate personal protective equipment (e.g., goggles & gloves). Maximize ventilation (open doors and windows). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all a ected areas and outside of container with warm, soapy water. Remove any contaminated clothing and wash before reuse. For large spills (e.g., > 1 gallon [3.785 liters]) deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Expose spilled material to UV light source for 2-5 minutes. Lift cured material from substrate and repeat until very little residue remains. Remove remaining spilled material with absorbent material and place into appropriate closed container(s). Dispose of properly in accordance with local, state and federal regulations. Wash all a ected areas and outside of container with warm, soapy water. Remove any contaminated clothing and wash before reuse. Keep spills and cleaning runo s out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE INFORMATION

**7.1** Work & Hygiene Practices: Avoid prolonged contact with this material. Avoid breathing the vapors generated by this product. Use in a well ventilated location (e.g., local exhaust ventilation, fans). Wash exposed skin thoroughly with plenty of soap and water after using this product. If necessary, use a moisturizer after washing. Do not eat, drink or smoke while handling this product.

**7.2** Storage & Handling: Use and store in a cool, dry, well ventilated location. Keep away from excessive heat. Keep away from incompatible materials listed in Section 10. Do not store in damaged or unmarked containers or storage devises. Keep containers securely closed when not in use. Open slowly on a level, stable surface. Empty containers may contain residual amounts of this product; therefore, empty containers shoild be handled with care. As a precaution against exposure to the eyes, nose, throat and face, this product should not be stored higher than waist level. KEEP AWAY FROM CHILDREN AT ALL TIMES!

**7.3** Special Precautions: Do not store where temperatures can exceed 50 °C (122 °F).

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

**8.1** Ventilation & Engineering Controls: Use with adequate ventilation (e.g., local exhaust ventilation, fans). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye wash station).

**8.2** Respiratory Protection: **No special respiratory protections is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR § 1910.134, application U.S. State regulations or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC Member States or Australia.**

**8.3** Eye Protection: Wear protective eyewear (e.g., safety glasses with side shields) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.

**8.4** Hand Protection: None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. When handling large quantities (e.g., >1 gallon [3.785 liters]), wear nitrile or impervious gloves.

**8.5** Body Protection: No apron required when handling small quantities. When handling large quantities (e.g., . 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product wash any exposed areas thoroughly with soap and water.

## 9. PHYSICAL & CHEMICAL PROPERTIES

- 9.1** Density: 1.1
- 9.2** Boiling Point: NA
- 9.3** Melting Point: ND
- 9.4** Evaporation Rate: NA
- 9.5** Vapor Pressure: ND
- 9.6** Molecular Weight: NE
- 9.7** Appearance & Color: CLEAR OR PIGMENTED
- 9.8** Odor Threshold: NE
- 9.9** Solubility: NOT SOLUBLE
- 9.1** pH: NA
- 9.11** Viscosity: APPROXIMATELY 2000>20000
- 9.12** Other Information: NA

## 10. STABILITY & REACTIVITY

**10.1** Stability: Relatively stable under ambient conditions when stored properly.

**10.2** Hazardous Decomposition Products: If exposed to extremely high temperatures, products of thermal decomposition may include irritating vapors and toxic gases (e.g., oxides of carbon and nitrogen).

**10.3** Hazardous Polymerization: Will not occur.

**10.4** Conditions to Avoid: Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks and ame.

**10.5** Incompatible Substances: Strong oxidizers, peroxides, strong acids or alkalis.

## 11. TOXICOLOGICAL INFORMATION

**11.1** Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the product which are found in scientific literature. These data have not been presented in this document.

**11.2** Acute Toxicity: See Section 2.5

**11.3** Chronic Toxicity: See Section 2.6

**11.4** Suspected Carcinogen: The ingredients of this product are not listed as carcinogens by the National Toxicology Program and have not been evaluated by the International Agency for Research on Cancer or the American Conference of Government Industrial Hygienists.

**11.5** Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. *Mutagenicity*: This product is not reported to produce mutagenic effects in humans. *Embryotoxicity*: This product is not reported to produce embryotoxic effects in humans. *Teratogenicity*: This product is not reported to cause teratogenic effects in humans.

**11.6** Irritancy of Product: See Section 2.3

**11.7** Biological Exposure Indices: NE

**11.8** Physician Recommendations: Treat symptomatically

## 12. ECOLOGICAL INFORMATION

**12.1** Environmental Stability: This product will slowly volatilize from soil. Components of this product will slowly decompose into organic compounds.

**12.2** Effects on Plants & Animals: There is no specific data available for this product on plant life.

**12.3** Effects on Aquatic Life: There is no specific data available for this product on aquatic life.

## 13. DISPOSAL CONSIDERATIONS

**13.1** Waste Disposal: Dispose in accordance with local, state and Federal waste laws.

**13.2** Special Considerations: This material becomes an inert plastic upon prolonged exposure to sources of UV light and sunlight. Disposal of inert plastics is safer for the environment and is more easily handled for disposal according to local, state and Federal regulations.

## 14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG, SCT, ADR and the CTDGR.

14.1 - 49 CFR (GRD) : **NOT REGULATED**

14.6 – MEXICO (SCT) : **NOT REGULATED**

14.2 - IATA (AIR) : **NOT REGULATED**

14.7 – ADGR (AUS) : **NOT REGULATED**

14.3 - IMDG (OCN) : **NOT REGULATED**

14.4 - TDGR (CANADIAN GND) : **NOT REGULATED**

14.5 - ADR/RID (EU) : **NOT REGULATED**

## 15. REGULATORY INFORMATION

**15.1** SARA Reporting: NA

**15.2** SARA Threshold Planning Quantity: NA

**15.3** TSCA Inventory Status: All components of this product are listed in the TSCA Inventory or are exempt

**15.4** CERCLA Reportable Quantity (RQ): NA

**15.5** Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

**15.6** Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are on the Priorities Substances List.

**15.7** State Regulatory Information: NA

**15.8** 67/548/EEC (European Union), Australian NOHSC:2011 (2003), and GHS Requirements: The primary components of this product are not listed in Annex 1 of EU Directive 67/548/EEC. Irritant (Xi). Risk Phrases (R): 36/37/38 - Irritating to eyes, respiratory system and skin. Safety Phrases (S): 2-23-29 - Keep out of reach of Children. Do not breathe gas, fumes, vapor or spray. Do not empty into drains.

## 16. OTHER INFORMATION

### 16.1

Other Information: WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Avoid breathing fume, gas, mist, vapors, spray. Wear protective gloves and eye/face protection. IF ON SKIN - Wash with soap and water. IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If skin irritation or a rash occurs - get medical advice/attention. Do not take internally. Keep away from heat and open flame. KEEP OUT OF THE REACH OF CHILDREN

**16.2** Disclaimer: This Safety Data Sheet (SDS) is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200.

Other government regulations must be reviewed for applicability to this product. To the best of X Zero X ltd knowledge, the information contained herein is reliable and accurate as of the date it was prepared; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**16.3** Prepared for: X ZEROX LTD

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