# Safety Data Sheet

## Optix Edge Lit Acrylic Sheet

### 1. Product details

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| Usage: | Plastic sheet products |
| Chemical characterization: | 97% Poly(methyl methacrylate/butyl acrylate) [CAS#25852-37-3]<br><2% Methyl methacrylate [CAS# 80-62-6]<br><1% n-Butyl acrylate [CAS# 141-32-2] |

### 2. Hazards identification

**This material is classified as not hazardous under OSHA regulations.** Low toxicity under normal conditions of handling and use. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors. Care should be taken during thermoforming to ensure that the product is not exposed to temperatures exceeding 392°F (200°C). Certain machining operations (e.g. laser cutting) can give rise to toxic and corrosive fumes. Adequate ventilation MUST be used.

### 3. First aid measures

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| Inhalation: | Move subject to fresh air. |
| Skin contact: | Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. |
| Eye contact: | Dust or fumes from fabrication operations may cause irritation. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Ingestion: | Low oral toxicity. Do not induce vomiting. Rinse mouth. |

### 4. Fire – fighting measures

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| Suitable extinguishing measures: | Water spray, foam, dry powder or CO2. |
| Specific fire hazards: | Combustion will evolve toxic, irritant and flammable vapors. |
| Special protective equipment & precaution for fire fighters: | A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. |

### 5. Accidental release measures

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| Personal precaution: | Provide adequate ventilation. Wear personal protective equipment. Do not breathe dust. |
| Environmental precaution: | Do not allow to enter into soil, waterbodies, or drains. |
| Methods for cleaning up: | Offcuts, swarf or dust should be collected and disposed of in a safe way. |

## 6. Handling and storage

Max. storage temperature: <104°F (<40°C)

Handling: These sheets are heavy and unwieldy. They should be handled with care, particularly in windy locations or outdoors. If broken or chipped the resultant edges can be sharp and cause cuts to skin and eyes. Take precautionary measures against static discharges. All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. Under normal conditions where thermoforming temperatures will not exceed 392°F (200°C) thermal decomposition products will include methyl methacrylate. Local exhaust ventilation and/or respiratory protective equipment should be used. Certain machining operations (e.g. laser cutting) can give rise to toxic and corrosive fumes. Adequate ventilation MUST be used.

Storage: Keep away from heat. Store vertically on A-frames. Indefinite storage life under specified storage conditions.

Incompatible materials: Most organic solvents, acetone, chlorinated hydrocarbons.

## 7. Exposure control

Exposure limits:

1. Methyl methacrylate
2. N-Butyl acrylate

| OSHA | | ACGIH | |
|---|---|---|---|
| PEL | STEL | TLV | STEL |
| 100 ppm | None | 50 ppm | 100 ppm |
| None | None | 2 ppm | None |

Ventilation measures: Provide good ventilation and/or an exhaust system in the work area.

Respiratory protection: None required under normal conditions.

Hand protection: Canvas or cotton gloves.

Eye protection: Safety glasses with side shields (ANSI Z87.1 equivalent).

Skin & body protection: Wear suitable protective clothing and boots.

Other protective measures: Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapors are likely to be evolved. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. Local extraction close to the cutting head must be used when laser cutting. When thermoforming local exhaust ventilation should be used. Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

## 8. Physical and chemical properties

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| Physical state: | Solid sheets |
| Color: | Clear or colored |
| Odor: | Odorless |
| pH: | Not applicable |
| Melting point: | Not available |
| Boiling point: | Not available |
| Decomposition temperature: | Not available |
| Flash point: | Not available |
| Auto-ignition temperature: | Not available |
| Explosion limits: | Not applicable |
| Evaporation rate: | Not applicable |
| Vapor pressure: | Not applicable |
| Vapor density: | Not applicable |
| Relative density: | 1.19 |
| Solubility: | Insoluble |

## 9. Stability and reactivity

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| Stability: | Stable under normal conditions. |
| Conditions to avoid: | Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation. |
| Materials to avoid: | Most organic solvents, acetone, chlorinated hydrocarbons. |
| Hazardous decomposition products: | Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide. |

## 10. Toxicological information

This product should not be harmful under normal conditions of use.

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| Inhalation: | Unlikely to be harmful by inhalation under ambient temperature. At high temperature, products of thermal decomposition can be irritating to the respiratory system. |

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| Skin contact: | No evidence of irritant effects from normal handling and use. Sharp edges may cause cuts. |
| Ingestion: | Unlikely to be harmful by ingestion under ambient temperature. |
| Eye contact: | Vapors from heated product can irritate the eyes. Sharp off-cuts may cause eye damage. |
| Carcinogenicity: | Non-carcinogenic |

## 11. Ecological information

This product is a solid, inert product with low volatility, and is essentially insoluble in water.

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| Ecotoxicity: | This product should have low toxicity to aquatic and terrestrial organisms. |
| Mobility: | Due to the solid nature of this product, it should have low mobility in soil. |
| Persistence & degradability: | This product is non-biodegradable. |
| Bioaccumulation: | This solid product has a low potential for bioaccumulation. |
| Effect in sewage plants: | May be separated mechanically. |

## 12. Disposal considerations

Waste disposal should be in accordance with all federal, state, and local environmental laws and regulations.

## 13. Transport information

Not subject to national and international regulations on the transport of dangerous goods.

## 14. Regulatory information

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| OSHA Hazard Communication: | Non-hazardous |
| Toxic Substances Control Act: | Listed |
| CERCLA Hazardous Substances (40 CFR 302): | None |
| SARA Section 313 Toxic Chemicals (40 CFR 372.65) | None |
| RCRA Hazardous Wastes (40 CFR 261): | When this product becomes a waste, it is identified as a solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261). |

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| EU Regulations: | This product is an Article and as such Article 31 (Requirements for Safety Data Sheets) of Regulation (EC) #1907/2006 does not apply. |
| California Proposition 65: | There is no substance in this product known to the state of California to cause cancer, birth defects, or other reproductive harm. |

## 15. Other information

SDS Prepared by: A&C Plastics

The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.