**Safety Data Sheet**
**Revision: 12 October 2020**

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product identifier

**Product Name** • **PreMask 3020+2M, 3020 LPX2, 3020 PD, 3050**

**Product Description** • Purple, blue or white liquid

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • Protective coating

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer** • IKONICS Corporation

4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

**Telephone (General)** • (218) 628-2217

**Telephone (General)** • (800) 328-4261 - Toll free

### 1.4 Emergency telephone number

**Chemtrec**

- 1-800-424-9300 - Within USA and Canada
- +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

## Section 2: Hazards Identification

### EU/EEC

**According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]**

### 2.1 Classification of the substance or mixture

**CLP** • Not classified

### 2.2 Label Elements

**CLP**

**Hazard statements** • Not classified

**Precautionary statements**

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other Hazards

**CLP** • No data available

### UN GHS

**According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Eighth Revised Edition**

## 2.1 Classification of the substance or mixture

**UN GHS** • Not classified

## 2.2 Label elements

**UN GHS**

**Hazard statements** • Not classified

**Precautionary statements**

**Prevention** • Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

**UN GHS** • No data available

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# United States (US)

**According to: OSHA 29 CFR 1910.1200 HCS**

## 2.1 Classification of the substance or mixture

**OSHA HCS 2012** • Not classified

## 2.2 Label elements

**OSHA HCS 2012**

**Hazard statements** • Not classified

**Precautionary statements**

**Prevention** • Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

**OSHA HCS 2012** • No data available

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# Canada

**According to: WHMIS 2015**

## 2.1 Classification of the substance or mixture

**WHMIS 2015** • Not classified

## 2.2 Label elements

**WHMIS 2015**

**Hazard statements** • Not classified

**Precautionary statements**

**Prevention** • Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water and soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### 2.3 Other hazards

**WHMIS 2015** • No data available

### 2.4 Other information

**NFPA**


## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

| Composition | | | | |
|---|---|---|---|---|
| **Chemical Name** | **Identifiers** | **%** | **LD50/LC50** | **Classifications According to Regulation/Directive** |
| 1,2-Propanediol | **CAS:**57-55-6<br>**EC Number:**200-338-0 | 0% TO 4% | Ingestion/Oral-Rat LD50<br>• 20 g/kg | **CLP / OSHA / WHMIS:** Eye Irrit. 2<br>**UN GHS Revision 6:** Skin Irrit. 3; Eye Irrit. 2A |

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

**Inhalation** • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call 911 or emergency medical service.

**Skin** • IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye** • 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.

**Ingestion** • If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

**Unsuitable Extinguishing Media** • No data available

**Firefighting Procedures** • Fire fighters should wear complete protective clothing including self-contained breathing

apparatus.
Keep unauthorized personnel away.
Ventilate closed spaces before entering.
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**
- Material may burn, but does not ignite readily.

**Hazardous Combustion Products**
- Products of combustion include: carbon oxides (COx).

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions**
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not walk through spilled material.

**Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### 6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures**
- Use appropriate Personal Protective Equipment (PPE)
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

**Handling**
- Use good safety and industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage**
- Store away from extreme heat. Do not freeze. Keep container closed when not in use.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

| Exposure Limits/Guidelines | | | | | | |
|---|---|---|---|---|---|---|
| | **Result** | **Australia** | **Canada Ontario** | **Ireland** | **New Zealand** | **Norway** |
| 1,2-Propanediol (57-55-6) | TWAs | 150 ppm TWA (total vapour and particulates); 474 mg/m3 TWA (total vapour and particulates); 10 | 10 mg/m3 TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present, | 150 ppm TWA (total vapour and particulates); 470 mg/m3 TWA (total vapour and particulates); 10 | 150 ppm TWA (particulates and vapour); 474 mg/m3 TWA (particulates and vapour); 10 mg/m3 TWA | 25 ppm TWA; 79 mg/m3 TWA |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | mg/m3 TWA (particulates only) | aerosol only); 50 ppm TWA (aerosol and vapor); 155 mg/m3 TWA (aerosol and vapor) | mg/m3 TWA (particulate) | (particulates only) | |
| | STELs | Not established | Not established | 450 ppm STEL (calculated, total vapour and particulates); 1410 mg/m3 STEL (calculated, total vapour and particulates); 30 mg/m3 STEL (calculated, particulate) | Not established | Not established |

| Exposure Limits/Guidelines (Con't.) | | |
|---|---|---|
| | **Result** | **South Africa** |
| 1,2-Propanediol (57-55-6) | TWAs | 150 ppm TWA (particulate and vapour); 470 mg/m3 TWA (particulate and vapour); 10 mg/m3 TWA (particulate) |

## 8.2 Exposure controls

**Engineering Measures/Controls**
- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

**Personal Protective Equipment**

**Pictograms**
-

**Respiratory**
- In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**
- Wear protective eyewear (goggles, face shield, or safety glasses).

**Hands**
- Wear protective gloves - rubber or neoprene.

**Skin/Body**
- Wear protective clothing - apron or other impervious body coverings.

**General Industrial Hygiene Considerations**
- Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls**
- No data available

# Section 9 - Physical and Chemical Properties

## 9.1 Information on Basic Physical and Chemical Properties

| **Material Description** | | | |
|---|---|---|---|
| Physical Form | Liquid | Appearance/Description | Viscous liquid. |
| Color | Purple, blue or white | Odor | No data available. |
| Odor Threshold | No data available | | |
| **General Properties** | | | |
| Boiling Point | 100 °C(212 °F) | Melting Point/Freezing Point | 0 °C(32 °F) |
| Decomposition Temperature | No data available | pH | No data available |
| Specific Gravity/Relative Density | > 1 Water=1 | Water Solubility | Soluble |
| Viscosity | 10500 to 16500 Centipoise (cPs, cP) or mPas @ 25 °C(77 °F) | Explosive Properties | Not relevant |
| Oxidizing Properties: | Not relevant | | |
| **Volatility** | | | |
| Vapor Pressure | No data available | Vapor Density | No data available |
| Evaporation Rate | No data available | VOC (Wt.) | 0 to 4 % |
| Volatiles (Wt.) | 73 to 77 % | | |
| **Flammability** | | | |
| Flash Point | > 200 °F(> 93.3333 °C) | UEL | No data available |
| LEL | No data available | Autoignition | Not relevant |
| Flammability (solid, gas) | Non-flammable in liquid form. When dry, product will burn as an | | |

| | | | |
|---|---|---|---|
| | ordinary combustible material. | | |
| **Environmental** | | | |
| Half-Life | No data available | Octanol/Water Partition coefficient | No data available |
| Coefficient of water/oil distribution | No data available | Bioaccumulation Factor | No data available |
| Bioconcentration Factor | No data available | Biochemical Oxygen Demand BOD/BOD5 | No data available |
| Chemical Oxygen Demand | No data available | Persistence | No data available |
| Degradation | No data available | | |

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid freezing. Excess heat.

### 10.5 Incompatible materials

- No data available.

### 10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - carbon oxides (COx).

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Components | | |
|---|---|---|
| 1,2-Propanediol (0% TO 4%) | 57-55-6 | **Acute Toxicity:** Ingestion/Oral-Rat LD50 • 20 g/kg;<br>**Irritation:** Eye-Rabbit • 100 mg • Mild irritation; Skin-Human • 104 mg 3 Day(s)-Intermittent • Moderate irritation |

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)** • May cause mild irritation.

**Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.

**Skin**

**Acute (Immediate)** • May cause mild irritation.

**Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.

**Eye**

**Acute (Immediate)** • May cause irritation.

**Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.

**Ingestion**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • No specific information available.

## Section 12 - Ecological Information

### 12.1 Toxicity

| Components | | |
|---|---|---|
| 1,2-Propanediol (0% TO 4%) | 57-55-6 | **Aquatic Toxicity-Fish:** 96 Hour(s) LC50 *Pimephales promelas* 710 mg/L [Fresh water]<br>**Aquatic Toxicity-Crustacea:** 48 Hour(s) EC50 Water Flea *Daphnia magna* >1000 mg/L |

### 12.2 Persistence and degradability

- No data available

### 12.3 Bioaccumulative potential

- No data available

### 12.4 Mobility in Soil

- No data available

### 12.5 Results of PBT and vPvB assessment

- No data available

### 12.6 Other adverse effects

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product waste**
- Dispose of content in accordance with local, regional, national, and/or international regulations.

**Packaging waste**
- Dispose of container in accordance with local, regional, national, and/or international regulations.

### 13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

## Section 14 - Transport Information

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|---|---|---|---|---|---|
| **DOT** | NDA | NDA | NDA | NDA | NDA |
| **IMO/IMDG** | NDA | NDA | NDA | NDA | NDA |
| **IATA/ICAO** | NDA | NDA | NDA | NDA | NDA |

**14.6 Special precautions for user**
- None specified.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
- Not relevant.

**14.8 Other information**

**DOT**
- Not regulated.

**IMO/IMDG**
- Not regulated.

**IATA/ICAO**
- Not regulated.

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**
- Not classified

| State Right To Know | | | |
|---|---|---|---|
| **Component** | **CAS** | **NJ** | **PA** |
| 1,2-Propanediol | 57-55-6 | Yes | Yes |

| Inventory | | | | | | |
|---|---|---|---|---|---|---|
| **Component** | **CAS** | **Australia AICS** | **Canada DSL** | **China** | **EU EINECS** | **Japan ENCS** |
| 1,2-Propanediol | 57-55-6 | Yes | Yes | Yes | Yes | Yes |
| **Inventory (Con't.)** | | | | | | |

| Component | CAS | Korea KECL | New Zealand | Philippines PICCS | TSCA |
|---|---|---|---|---|---|
| 1,2-Propanediol | 57-55-6 | Yes | Yes | Yes | Yes |

## Australia

### Labor

**Australia - High Volume Industrial Chemicals List**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | |

## Canada

### Labor

**Canada - WHMIS 1988 - Classifications of Substances**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | Uncontrolled product according to WHMIS classification criteria |

**Canada - WHMIS 1988 - Ingredient Disclosure List**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | 1 % |

### Environment

**Canada - Council of Ministers of the Environment - Water Quality Guidelines for Freshwater Aquatic Life**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | 500000 µg/L (listed under Glycols) |

## Germany

### Environment

**Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | ID Number 280, hazard class 1 - low hazard to waters |

## Japan

### Environment

**Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | 2-(8)-321, 2-(8)-323; (2)-234 (ENCS inventory number, considered an existing substance based on the Industrial Safety and Health Law) |

### Other

**Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | Readily biodegradable ([2-234]) |

**Japan - Fire Service Law - Hazardous Materials**

| | | |
|---|---|---|
| •1,2-Propanediol | 57-55-6 | Group 4 Flammable liquids; 3rd Class Petroleum - soluble; Hazard rank III |

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 15.3 Other Information

- California Proposition 65: This product can expose you to chemicals known to the State of California to cause cancer:
  Sodium o-phenylphenate CAS No. 132-27-4 <0.07%

# Section 16 - Other Information

**Relevant Phrases (code & full text)**

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.
  P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

| | |
|---|---|
| | P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. |
| **Classification method for mixtures** | • Calculation method. |
| **Last Revision Date** | • 01 October 2018 |
| **Preparation Date** | • 12 October 2020 |
| **Other Information** | • Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142. |
| **Disclaimer/Statement of Liability** | • The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. |