Safety Data Sheet

Material Name: PHTHALIC ANHYDRIDE - MOLTEN

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
PHTHALIC ANHYDRIDE - MOLTEN

Chemical Family
aromatic, carboxylic, anhydrides

Product Use
Used in the manufacture of plasticizers, polyester and alkyd resins, dye intermediates, food preservatives, pharmaceuticals, insect repellants and perfume fixatives.

Restrictions on Use
None known.

Details of the supplier of the safety data sheet
KOPPERS INC.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Mfg Contact: 412-227-2001 (SDS Requests: 866-852-5239)

CHEMTREC: 800-424-9300 (Outside USA: +1 703-527-3887)
Emergencies: (Medical in USA): 877-737-9047
Emergencies: (Medical Outside of USA): 651-632-9269
E-mail: naorgmsds@koppers.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Acute Toxicity - Oral - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 1
Respiratory Sensitization - Category 1
Skin Sensitization - Category 1
Specific target organ toxicity - Single exposure - Category 3 (respiratory system.)

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
Precautionary Statement(s)

Prevention
Avoid breathing vapor or mist.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves and eye/face protection.
Wear respiratory protection.
Contaminated work clothing should not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.

Response
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.

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

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards
Heated material may cause thermal burns.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>85-44-9</td>
<td>Phthalic anhydride</td>
<td>&gt;99.7</td>
</tr>
<tr>
<td>85-41-6</td>
<td>Phthalimide</td>
<td>≤0.2</td>
</tr>
<tr>
<td>88-99-3</td>
<td>Phthalic acid</td>
<td>≤0.1</td>
</tr>
<tr>
<td>65-85-0</td>
<td>BENZOIC ACID</td>
<td>≤0.05</td>
</tr>
<tr>
<td>108-31-6</td>
<td>Maleic anhydride</td>
<td>≤0.05</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin
For thermal burns, cool affected areas as quickly as possible by drenching or immersing in water until material solidifies. Do not remove solidified material from the skin. Get immediate medical attention.

**Eyes**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

**Ingestion**
Not a likely route of exposure. If burns occur, treat as thermal burns. Get immediate medical attention. Rinse mouth.

**Most Important Symptoms/Effects**

**Acute**
Harmful if swallowed, respiratory tract irritation, skin irritation, eye burns, allergic reactions, thermal burns from heated material

**Delayed**
allergic reactions

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically and supportively.

**Section 5 - FIRE FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media**
carbon dioxide, regular dry chemical, dry sand, alcohol-resistant foam, water spray, fog or mist

**Unsuitable Extinguishing Media**
None known.

**Special Hazards Arising from the Chemical**
During fire conditions, vapors and decomposition products may be released, forming flammable/explosive mixtures in air. Closed containers may rupture violently when heated.

**Hazardous Combustion Products**
Oxides of carbon; Release of phthalic acid in contact with water.

**Fire Fighting Measures**
Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Large fires: Flood with fine water spray. Directly spraying water or foam onto hot burning product may cause frothing. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Keep unnecessary people away, isolate hazard area and deny entry.

**Special Protective Equipment and Precautions for Firefighters**
Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

**Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**
Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

**Methods and Materials for Containment and Cleaning Up**
Do not touch spilled material. Stop leak if possible without personal risk. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Do not get water directly on material. In Canada, report releases to provincial authorities, municipal authorities, or both, as required. If this product is spilled or leaked into the environment, the CERCLA (40 CFR 302.4) reportable quantity is 5000 pounds, and requires National Response Center notification.
Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Avoid breathing vapor or mist. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear suitable protective gloves and eye/face protection. Wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.

Conditions for Safe Storage, Including any Incompatibilities
Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.
Store and handle in accordance with all current regulations and standards. Protect from physical damage. Store in a cool, dry place. Avoid contact with water or moisture. Avoid heat, flames, sparks and other sources of ignition. Keep separated from incompatible substances.

Incompatible Materials
amines, bases, metal oxides, metals, oxidizing materials, combustible materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phthalic anhydride</td>
<td></td>
</tr>
<tr>
<td>ACGIH:</td>
<td>0.002 mg/m³ TWA inhalable fraction and vapor</td>
</tr>
<tr>
<td></td>
<td>0.005 mg/m³ STEL inhalable fraction and vapor</td>
</tr>
<tr>
<td></td>
<td>Skin - potential significant contribution to overall exposure by the cutaneous route</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>2 ppm TWA ; 12 mg/m³ TWA</td>
</tr>
<tr>
<td>Maleic anhydride</td>
<td></td>
</tr>
<tr>
<td>ACGIH:</td>
<td>0.01 mg/m³ TWA inhalable fraction and vapor</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>0.25 ppm TWA ; 1 mg/m³ TWA</td>
</tr>
</tbody>
</table>

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
There are no biological limit values for any of this product's components.

Engineering Controls
Ensure adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
ANSI Z87.1-1989 approved safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. For the molten form: A face shield is recommended.

Skin Protection
In the molten form: Wear appropriate heat resistant clothing.

Respiratory Protection
If the applicable TLVs and/or PELs are exceeded, use canister or cartridge respirators, which are MSHA/NIOSH-approved, with combination cartridges rated for organic vapor cartridges and dusts, fume, mists.

Glove Recommendations
In the molten form: Wear appropriate heat resistant gloves.
Material Name: PHTHALIC ANHYDRIDE - MOLTEN

Protective Materials
Rubber, heat resistant material

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>clear liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>acrid odor</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>0.32 - 0.72 mg/m³</td>
</tr>
<tr>
<td><strong>pH Solution</strong></td>
<td>2 - 15 g/L</td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>284 °C</td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>151 °C Closed Cup</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>0.001 mmHg @ 30 °C</td>
</tr>
<tr>
<td><strong>Specific Gravity (water=1)</strong></td>
<td>1.2 at 135 °C</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Kinematic viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Physical Form</strong></td>
<td>molten liquid</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong></td>
<td>C6-H4-(C-O)2-O</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>148.12</td>
</tr>
<tr>
<td><strong>Minimum Explosive Concentration</strong></td>
<td>30 g/m³</td>
</tr>
<tr>
<td><strong>Maximum explosion pressure</strong></td>
<td>6.6 bar</td>
</tr>
<tr>
<td><strong>Solvent Solubility</strong></td>
<td>Soluble alcohol, carbon disulfide</td>
</tr>
</tbody>
</table>

| **Evaporation Rate**            | Not available                                          |
| **Autoignition Temperature**    | 570 °C                                                 |
| **Lower Explosive Limit**       | 1.7 %                                                  |
| **Upper Explosive Limit**       | 10.4 %                                                 |
| **Vapor Density (air=1)**       | 5.1                                                    |
| **Water Solubility**            | 0.62 % @ 20 °C (Room temperature, Insoluble)          |
| **Viscosity**                   | 6.4 mPa.s 197 °C                                       |
| **Solubility (Other)**          | Not available                                          |
| **KSt-value (bar x m/s)**       | 166 bar/m/s                                            |
| **Sublimation**                 | 295 °C                                                 |
| **Minimum Ignition Temperature**| 650 °C                                                 |
Section 10 - STABILITY AND REACTIVITY

Chemical Stability
May decompose on contact with water or moist air.

Possibility of Hazardous Reactions
Will not polymerize.

Conditions to Avoid
Avoid contact with water or moisture. Keep out of water supplies and sewers. Incompatibilities: amines, bases, metal oxides, metals, oxidizing materials, combustible materials

Incompatible Materials
amines, bases, metal oxides, metals, oxidizing materials, combustible materials

Hazardous decomposition products
Combustion products: oxides of carbon

Water or Moisture
phthalic acid.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
irritation, allergic reactions

Skin Contact
irritation, allergic reactions, thermal burns from heated material

Eye Contact
burns, thermal burns from heated material

Ingestion
Harmful if swallowed, thermal burns from heated material

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:
Phthalic anhydride (85-44-9)
Oral LD50 Rat 1530 mg/kg
Dermal LD50 Rabbit >10 g/kg
Inhalation LC50 Rat >210 mg/m3 1 h

Product Toxicity Data

Acute Toxicity Estimate

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1528.09 mg/kg</td>
</tr>
</tbody>
</table>

Immediate Effects
Harmful if swallowed, respiratory tract irritation, skin irritation, eye burns, allergic reactions, thermal burns from heated material

Delayed Effects
allergic reactions

Irritation/Corrosivity Data
respiratory tract irritation, skin irritation, eye burns

Respiratory Sensitization
Component data indicate the substance is sensitizing.

Dermal Sensitization
Component data indicate the substance is sensitizing.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phthalic anhydride</td>
<td>85-44-9</td>
</tr>
</tbody>
</table>

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity
Invitro Genotoxicity: Negative.

Tumorigenic Data
No data available

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
respiratory system

Specific Target Organ Toxicity - Repeated Exposure
No data available.

Aspiration hazard
Not expected to be an aspiration hazard.

Medical Conditions Aggravated by Exposure
skin disorders, immune system disorders or allergies

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity
No LOLI ecotoxicity data are available for this product's components.

Persistence and Degradability
Relatively non-persistent in the environment.

Bioaccumulative Potential
Accumulates very little in the bodies of living organisms.

Mobility
Not expected to leach through the soil or the sediment.

Other Toxicity
Not appreciably volatile from water.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations.
Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION
US DOT Information:
Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. , (Contains: PHTHALIC ANHYDRIDE) RQ
Hazard Class: 9
UN/NA #: UN3257
Packing Group: III
Required Label(s): 9
Further information: Depending on product temperature, UN3256, Elevated temperature liquid, flammable, n.o.s., Hazard Class 3, Packing Group III, may apply.

IATA Information:
Further information: Air shipment is prohibited

TDG Information:
Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. , (Contains: PHTHALIC ANHYDRIDE) RQ
Hazard Class: 9
UN#: UN3257
Packing Group: III
Required Label(s): 9
Further information: Depending on product temperature, UN3256, Elevated temperature liquid, flammable, n.o.s., Hazard Class 3, Packing Group III, may apply.

International Bulk Chemical Code
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Further information
Component Marine Pollutants This material does not contain any chemicals listed on the Hazardous Materials Table required by US DOT to be identified as a marine pollutant.

Section 15 - REGULATORY INFORMATION
U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Component</th>
<th>85-44-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phthalic anhydride</td>
<td></td>
</tr>
<tr>
<td>SARA 313:</td>
<td>1% de minimis concentration</td>
</tr>
<tr>
<td>CERCLA:</td>
<td>5000 lb final RQ; 2270 kg final RQ</td>
</tr>
</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories
Acute toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
</table>
California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)
Not listed under California Proposition 65.

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Phthalic anhydride</th>
<th>85-44-9</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
</tr>
</thead>
</table>

| Phthalic anhydride | 85-44-9 | 0.1 % |

WHMIS Classification
D2A, D2B

Component Analysis - Inventory
Phthalic anhydride (85-44-9)

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<tbody>
<tr>
<td>Yes</td>
<td>DS</td>
<td>L</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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Phthalimide (85-41-6)

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<tr>
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<td>DS</td>
<td>L</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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Phthalic acid (88-99-3)

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<tr>
<td>Yes</td>
<td>DS</td>
<td>L</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
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</table>
**BENZOIC ACID (65-85-0)**

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<td>No</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

**Maleic anhydride (108-31-6)**

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<td>EIN</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**U.S. Inventory (TSCA)**
Listed on inventory.

**Section 16 - OTHER INFORMATION**

**NFPA Ratings**
Health: 3 Fire: 1 Reactivity: 1
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**
Updated: 7/19/2018; MSDS SUMMARY OF CHANGES: SECTION 15 - CA Proposition 65

**Key / Legend**
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); K - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOXI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-
Other Information

Disclaimer:
The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.