



OSSCHEM INC. MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME:

Methacrylate Polymer Blend

PRODUCT NAME:

Audalin ® Impression Polymer, Clear

TRADE NAME/PRODUCT CODE:

Z 600 0000

PRODUCT USE:

Organic Process Chemical

MANUFACTURER:

ESSCHEM INC.

ADDRESS:

P O BOX 1139

LINWOOD PA 19061-1139

24 HR. EMERGENCY TELEPHONE:

CHEMTREC: 1-800-424-9300

PREPARED BY:

Teri Allen, HEALTH & SAFETY DEPARTMENT

PHONE:

1-610-497-9000, During Business Hours

PREPARATION/UPDATE DATE:

6/14/2012

PRINT DATE:

6/14/2012

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

FOR POLYMER:

ITEM CHEMICAL NAME

CAS NUMBER:

WT/WT % 60.0-100.0

01 02

Polymer Polymer 9003-42-3 9011-14-7

0.0-30.0

ACGIH

OSHA

ITEM

TLV-TWA

TLV-STEL

PEL TWA

PEL CEILING

Company Recommendation

01 02

10 mg/m³ 10 mg/m³ NE NE 15 mg/m³ 15 mg/m³ NE NE

15 mg/m³ 15 mg/m³ SKIN NE

NE

See Section 16 for Abbreviations.

Product: Type 600

Code: Z 600 0000

Page 2

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: For Polymer:

OSHA classifies this material as Particulates, Not

Otherwise Classified.

Acute Hazards:

Eyes

May be irritating to the eyes by gross overexposure, no

matter how generated. Symptoms of overexposure may include redness, itching, irritation and watering. Keep dust

Ingestion:

Not expected to cause any harmful effects. Ingestion of large amounts may be irritating if product is swallowed. may cause nausea, headache, vomiting and/or diarrhea.

Skin:

May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.

Inhalation:

May be irritated by gross overexposure, no matter how

generated.

Chronic Hazards:

None known.

CARCINOGENICITY:

None of the components of this material are listed by

IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MCASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

If product gets in the eyes, flush with copious amounts of lukewarm water for at

least 15 minutes. If irritation occurs, contact a physician.

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 anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance

that was swallowed. Get medical attention immediately.

INHALATION:

Remove to fresh air. Seek immediate medical attention.

SKIN:

If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water.

followed by a thorough washing of the effected area with soap and water. If

irritation, redness or swelling persists, contact a physician immediately.

CLOTHING:

Remove contaminated clothing, wash thoroughly before reuse. Treat symptoms conventionally, after thorough decontamination.

TREATMENT:

Product: Type 600 Code: Z 600 0000 Page 3

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 304 °C, 580 °F

FLAMMABLE LIMIT, AIR VOL% LOWER:

LOWER: NA

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical.

FIRE AND EXPLOSION HAZARDS: Polymer dust is combustible. The explosive limits of the polymer

particles suspended in air are approximately those of coal dust. Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source.

EXPLOSION HAZARD:

Firefighters should wear self-contained breathing apparatus.

SENSITIVE TO MECHANICAL IMPACT: SENSITIVE TO STATIC DISCHARGE:

SPECIAL FIRE FIGHTING PROCEDURES:

For Polymer: No. For Polymer: No.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: Before cleaning any spill or leak, individuals involved must wear

appropriate Personal Protective Equipment (e.g., goggles, gloves). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any

contaminated clothing and wash thoroughly before reuse.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Use in well ventilated areas. Avoid contact with skin, eyes and

clothing. Avoid breathing dust. Use good personal hygiene and

housekeeping.

PRECAUTIONS FOR STORAGE: Store containers in a cool, dry location, away from direct sunlight,

other light sources, or sources of intense heat. Keep container

closed to prevent water absorption and contamination.

INDUSTRIAL HYGIENE PRACTICES: Avoid prolonged contact with the product. Use in a well-ventilated

location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or

smoke while handling product.

Product: Type 600 Code: Z 600 0000 Page 4

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: When working with large quantities of product provide adequate

ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

RESPIRATORY PROTECTION: No special respiratory protection is required under typical

circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910,134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member

states, or Australia.

EYE PROTECTION: Depending on the use of this product, safety glasses or goggles

may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166. Ensure that an eyewash station, sink or washbasin is

available in case of exposure to eyes.

PROTECTIVE GLOVES: If anticipated that prolonged & repeated skin contact will occur

during use of this product, wear gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate

standards of Canada, of the E.C. member states.

OTHER PROTECTIVE EQUIPMENT: No special body protection is required under typical circumstances

of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. An eyewash station and a safety shower are recommended. High temperature

processing equipment should be well ventilated.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fine clear to pigmented powder.

ODOR: Faint odor in bulk.

NA pH: ND ODOR THRESHOLD: NA **BOILING POINT:** NA FREEZING POINT: NA VISCOSITY: ND SPECIFIC GRAVITY (H2O=1): NA VAPOR PRESSURE: PERCENT VOLATILE W/W%: NA NA VAPOR DENSITY (AIR=1): EVAPORATION RATE (BuAc =1): NA SOLUBILITY IN WATER: Insoluble. COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

X

Product: Type 600 Code: Z 600 0000 Page 5

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heating above 240 °C, 464 °F.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate Monomer and Oxides of Carbon when burned.

MAY OCCUR: HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR:

STABILITY: UNSTABLE: STABLE: X

SECTION 11- TOXICOLOGICAL PROPERTIES

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

REPRODUCTIVE TOXICITY DATA:

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

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

ENVIRONMENTAL FATE:

There is no specific data available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of properly in accordance with Federal, State, and Local

regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers is not recommended.

Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with Federal, State and

Local regulations.

Page 6 Code: Z 600 0000 Product: Type 600

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME:

POLYMER, NOI

DOT/UN CLASS: NA/UN NUMBER: PACKING GROUP:

LABEL: IMDG CLASS: IMDG PG: CERCLA RQ:

SECTION 15 - REGULATORY INFORMATION

SARA Reporting Requirements:

NA

SARA Threshold Planning Quantity:

There are no specific Threshold Planning Quantities for the

components of this product.

TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory.

For use in FDA regulated products only.

CERCLA Reportable Quantity (RQ):

Other Federal Requirements:

This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

This product has been classified according to the hazard criteria of Other Canadian Regulations: the CPR and the MSDS 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 listed

on the Priorities Substances List.

State Regulatory Information:

This product may contain components that are covered under

specific state criteria.

RISK STATEMENTS:

R36/37/38 - Irritating to eyes, respiratory system and skin.

SAFETY STATEMENTS:

\$3 - Keep in a cool place.

S7 - Keep container tightly closed.

S9 - Keep container in a well-ventilated place.

\$20 - When using do not eat or drink. S 29 - Do not empty into drains.

\$37/39 - Wear suitable gloves and eye/face protection.

Product: Type 600

Code: Z 600 0000

Page 7

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING: HEALTH: FLAMMABILITY: 1 0 REACTIVITY: PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Goggles. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: ABBREVIATIONS: ND Not Determined Not Applicable NA Not Established NE G Gallon parts per million ppm Liter Milligram mg Mole mol Gram gm Micro Kilogram kg Pico Millimeter P mm Pa **Pascals** LD Lethal Dose LC Lethal Concentration TD Toxic Dose TC Toxic Concentration COD Chemical Oxygen Demand BOD Biological Oxygen Demand Theoretical Oxygen Demand Lowest LO Threshold Limit TLm H Hours M Months Y Years D Days Weeks W ACGIH American Conference of Governmental Industrial Hygienist Controlled Product's Regulation CPR Canadian Domestic Substances List DSL NDSL Canadian Non-domestic Substance List IARC International Agency for Research for Cancer NOEL No Observed Effect Level NOAEL No Observed Adverse Effect Level OSHA Occupational Safety and Health Administration Permissible Exposure Limit PEL Threshold Limit Value TLV

Product: Type 600 Code: Z 600 0000 Page 8

SECTION 16 - OTHER INFORMATION CONTINUED

Reviewed By:

Barbara Gardocki

Health, Safety and Environment

Reviewed By:

Edward Sobolewski

Technical Review

Reviewed By:

Susan Sheariss

Senior Company Officer

Control Number:

04-019

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BÉLIÉVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HISIHER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HISIHER PARTICULAR PURPOSE AND ON THE CONDITION THAT HEISHE ASSUME THE RISK OF HISIHER USE THEREOF.

Liquid

esschem inc. Material Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME:

Mixture of: Plasticizers, Oil and Alcohol

PRODUCT NAME:

Audalin® Impression Liquid, A-Pink

TRADE NAME/PRODUCT CODE:

Z 600 6531

PRODUCT USE:

Organic Process Chemical

MANUFACTURER:

ESSCHEM INC. P O BOX 1139

ADDRESS:

LINWOOD PA 19061-1139

24 HR. EMERGENCY TELEPHONE:

CHEMTREC: 1-800-424-9300

PREPARED BY:

Teri Allen, HEALTH & SAFETY DEPARTMENT

1-610-497-9000 During Business Hours

PREPARATION/UPDATE DATE:

6/14/2012

PRINT DATE:

PHONE:

6/14/2012

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER:	WT/WT %
01	Benzyl Alcohol	100-5 <mark>1-</mark> 6	40,0-70.0
02	Safflower Oil	8001-23-8	10.0-30.0
03	Triaryl Phosphate	124 <mark>1-9</mark> 4-7	10.0~30.0
04	Diundecyl Phthalate	3648-20-2	0.0-10.0

ACGIH			OSHA		Company	
ITEM	TLV-TWA	TLV-STEL	PEL TWA	PEL CEILING	Recommendation	SKIN
01	NE	NE	NE	NE	NE	NE
02	NE	NE	NE	NE	NE .	NE
03	3 mg/m ³	NE	3 mg/m ³	NE	3 mg/m ³	NE
04	NE	NE	NE	NE	NE	NE

See Section 16 for Abbreviations.

Product: Type 600

Code: Z 600 6531

Page 2

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

For Mixture:

Acute Hazards:

Eyes:

Is a severe irritant. Direct contact with the liquid may

cause stinging, tearing and redness.

Ingostion:

Harmful if swallowed. Excessive quantities may cause irritation of the digestive tract, with of symptoms abdominal

cramps, nausea and/or diarrhea.

Inhalation:

Concentrated vapor may irritate the nose and throat. Over exposure to vapors causes headache, vertigo, nausea,

vomiting, and diarrhea.

Skin:

May cause irritation. May be harmful if absorbed through the skin. Direct contact or exposure to vapors or mists may cause redness and burning, drying, cracking or

damage.

Chronic Hazards:

Nervous System:

High exposure can cause central nervous system depression. The phthalate component has been found to

cause liver abnormalities and kidney damage in laboratory

animals.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders may be more susceptible to the effects of this material. Persons with lung disorders may be more susceptible to the effects of

this material.

CARCINOGENICITY:

None of the components of this material are listed by

IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

EYES:

If product gets in the eyes, flush with copious amounts of lukewarm water for at

least 15 minutes. If irritation occurs, contact a physician.

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 anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance

that was swallowed. Get medical attention immediately.

Remove to fresh air. Seek immediate medical attention.

SKIN:

If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water,

followed by a thorough washing of the effected area with soap and water. If

irritation, redness or swelling persists, contact a physician immediately.

CLOTHING: TREATMENT:

INHALATION:

Remove contaminated clothing, wash thoroughly before reuse. Treat symptoms conventionally, after thorough decontamination.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200 °F, >93 °C

FLAMMABLE LIMIT, AIR VOL% LOWER:

UPPER: NE

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHER METHOD: Chemical foam, carbon dioxide, dry chemical.

FIRE AND EXPLOSION HAZARDS: High temperatures, accidental impurities, or exposure to radiation

NE

or oxidizers may cause a reaction generating heat/pressure. Closed containers may rupture or explode. Use a water spray or fog to reduce or direct vapors. Water may not be effective in

actually extinguishing a fire involving this product.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter fire area without proper protection. Fight fire from a

safe location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full

protective equipment.

SENSITIVE TO MECHANICAL IMPACT: For Mixture: No. SENSITIVE TO STATIC DISCHARGE: For Mixture: No.

SECTION 6 ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Use good, local ventilation with a minimum capture velocity of 100

ft/min (30 m/min) at point of release. Refer to Industrial

Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. Observe precautions found on label. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended

for heating the product which can be set at a maximum

temperature of 60°C/140°F

PRECAUTIONS FOR STORAGE: Store containers in a cool, dry location, away from direct sunlight,

heat, sparks, flame, other light sources, or sources of intense heat.

Keep container closed after each use.

INDUSTRIAL HYGIENE PRACTICES: Avoid prolonged contact with the product. Use in a well-ventilated

location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or

smoke while handling product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Refer to Section 7 regarding the ventilation requirements for

working with this product. Use local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated.

RESPIRATORY PROTECTION: A respirator should be worn whenever workplace conditions

warrant a respirators use. None required if airborne

concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other

appropriate governing standard.

EYE PROTECTION: Depending on the use of this product, splash or safety glasses

may be worn. If necessary, refer to U.S. OSHA 29 CFR \$1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of

exposure to eyes.

PROTECTIVE GLOVES: If anticipated that prolonged & repeated skin contact will occur

during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR

§1910.138, or other appropriate governing standards.

OTHER PROTECTIVE EQUIPMENT: No special body protection is required under typical circumstances

of use and handling. If necessary, refer to appropriate governing

standards. An eyewash station and a safety shower are

recommended.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

For Alcohol:

APPEARANCE: Clear, pink oily liquid.

ODOR: Pleasant PH: ND ODOR THRESHOLD: ND

BOILING POINT: $205 \,^{\circ}\text{C}$, $401 \,^{\circ}\text{F}$ FREEZING POINT: $-15 \,^{\circ}\text{C}$, $5 \,^{\circ}\text{F}$ VISCOSITY:Heavier than waterSPECIFIC GRAVITY (H2O=1): $1.05 \,^{\circ}$ @ $4 \,^{\circ}$ C, $20 \,^{\circ}$ F

VAPOR PRESSURE: 0.15 mm Hg @258 °C, 77 °F

PERCENT VOLATILE W/W%: 100 VAPOR DENSITY (A|R=1): 3.72

EVAPORATION RATE (BuAc =1): 1.8 (Ether = 1)
SOLUBILITY IN WATER: 1,8 (Ether = 1)
1g/25ml water @ 17°C

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 40 °C, 104 °F, oxidizing or reducing agents,

peroxides and amines.

INCOMPATIBILITY (MATERIALS TO AVOID): None.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal conditions, oxides of Carbon when burned,

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

STABILITY: UNSTABLE: X

SHCTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Alcohol: Central nervous system.

For Oil: None Listed.
For Phosphate: None Listed.
For Phthalate: None Listed.

MUTAGENICITY DATA: This product is not reported to produce mutagenic effects in humans.

REPRODUCTIVE TOXICITY DATA:

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

SECTION 11- TOXICOLOGICAL PROPERTIES

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There may be toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

For Alcohol:

1000 ppm/8H. LCLo: Inhalation Rat 400 mg/kg. Intraperitoneal Rat LD50: LD50: 650 mg/kg. Intraperitoneal Mouse LD50: 324 mg/kg. Intravenous Mouse Intravenous Rat 53 mg/kg. LD₅₀: Oral Mouse LD_{50:} 1360 mg/kg. Oral Rat LD₅₀: 1230 mg/kg. Oral Rabbit LD50: 1040 mg/kg. 1700 mg/kg. Subcutaneous Rat LDLo:

For Phosphate:

Intraperitoneal Mouse LD₅₀: 930 mg/kg. Intravenous Rabbit LD_{Lo}: 272 mg/kg. Oral Rat LD₅₀: 7500 mg/kg.

For Phthalate:

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

For Mixture:

There is no specific data available for this product, however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There is ecological data for the components of the product, which is found in scientific literature. Some of this data is presented below.

For Alcohol:

Fathead Minnows

LC50:

46.41 mg/L-96H.

Bluegills

LC₅₀TLm_{96H}:

25.05 mg/L-96H.

ENVIRONMENTAL FATE:

There is no specific data available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose waste material in accordance with Federal, State, and

Local regulations.

DISPOSAL OF EMPTY CONTAINERS:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME:

PLASTICS MATERIAL, NOI

DOT/UN CLASS: NA/UN NUMBER: PACKING GROUP:

LABEL: IMDG CLASS: IMDG PG: CERCLA RQ:

SECTION 15 - REGULATORY INFORMATION

SARA Reporting Requirements: NA

SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for the

components of this product.

TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

CERCLA Reportable Quantity (RQ):

Other Federal Requirements: This product complies with the appropriate sections of the Food

and Drug Administration's 21 CFR.

Other Canadian Regulations: This product has been classified according to the hazard criteria of

the CPR and the MSDS 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 listed

on the Priorities Substances List.

State Regulatory Information: This product may contain components that are covered under

specific state criteria.

RISK STATEMENTS: R36/37/38 – Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact

SAFETY STATEMENTS: \$3 - Keep in a cool place.

\$7 - Keep container tightly closed.

S9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No Smoking.

S20 – When using do not eat or drink. S 29 – Do not empty into drains.

S37/39 - Wear suitable gloves and eye/face protection.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 2

PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 2

SECTION 16 OTHER INFORMATION - CONTINUED

ABBREVIATIONS:

NA	Not Applicable	ND	Not Determined
NE	Not Established		
ppm	parts per million	G	Gallon
mg	Milligram	L	Liter
gm	Gram	mol	Mole
kg	Kilogram	þ	Micro
mm	Millimeter	р	Pico
Pa	Pascals	C	cento
LC	Lethal Concentration	LD	Lethal Dose
TC	Toxic Concentration	TD	Toxic Dose
BOD	Biological Oxygen Demand	COD	Chemical Oxygen Demand
Lo	Lowest	ThOD	Theoretical Oxygen Demand
TLm	Threshold Limit	IC	Inhibitory Concentration
DOC	Dissolved Organic Carbon		V.P. S.
Н	Hours	M	Months
D	Days	Y	Years
W	Weeks		

ABBREVIATIONS:

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation
DSL Canadian Domestic Substances List
NDSL Canadian Non-domestic Substance List
IARC International Agency for Research for Cancer

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit
TLV Threshold Limit Value

Reviewed By: Barbara Gardocki Health, Safety and Environment

Reviewed By: Edward Sobolewski Technical Review

Reviewed By: Susan Sheariss Senior Company Officer

Control Number: 04-069

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE. OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HISHER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HISHER PARTICULAR PURPOSE AND ON THE CONDITION THAT HEISHE ASSUME THE RISK OF HISHER USE THEREOF.