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af Purpose ABS ymerland, Inc.

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION .

MANUFACTURER / SUPPLIER

Polymerland, Inc. 501 Avery Street Parkersburg, WV 26102 USA

Polymerland Canada, Inc. 180 Attwell Drive, Suite 505 Rexdale, Ontario M9W 6A9 Canada

EMERGENCY TELEPHONE

(800) 424-9300 (CHEMTREC)

(304) 424-5427 (Product (304) 424-5910 Safety)

NON-EMERGENCY TELEPHONE

(800) 752-7842 (Service Center)

(304) 424-5742 Parkersburg W. Va.

ABS GENERAL PURPOSE

PRODUCT DESCRIPTION:

ABS Polymer, SAN Polymer, MABS Polymer, PLN SD, Alpha-methylstyrene ABS Polymer. 9003-56-9, 9003-54-7, 25213-88-1,

May be used to produce molded or extruded

PRODUCT USE: articles or as a component of other industrial products.

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers which are not expected to be hazardous.

ditional compositional data are provided in the REGULATORY INFORMATION ction for WHMIS, SARA 313, California Proposition 65, and various state right-to-know laws.

CAS NUMBER CHEMICAL NAME

OSHA PEL ACGIH TLV

OSHA CEILING

50 ppm TWA8 50 ppm

100 ppm

100-42-5 styrene

These materials are high-molecular-weight polymers not expected to be chemically active under recommended conditions of use. Trace amounts of residual monomers, including acrylonitrils and styrens, suspected carcinogens, are present and may be released under suggested processing temperature ranges. For Hazard Communication Purposes under OSHA Standard 29 CFR 1910.1200 styrene monomer is listed as a possible carcinogen based upon an evaluation from IARC. (See Health Hazard Information).

3. HAZARDS IDENTIFICATION

Solid pellats with slight or no odor. EMERGENCY OVERVIEW: Spilled pellets create slipping hazard. Can burn in a fire creating dense toxic smoke. Holten plastic can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.

POTENTIAL HEALTH EFFECTS ~ EYE:

Product may cause irritation or injury due to

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KIN:

INGESTION: INHALATION:

mechanical action. Pellets not likely to cause skin irritation. Not acutely toxic. Pellet inhalation unlikely due to physical form.

HRONIC/CARCINOGENICITY

HTP: OSHA: Not Tested Not Regulated

Listed MELT PROCESSING HEALTH EFFECTS: Molten plantic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe over-exposure, nausea and headache.

Grease-like processing fume condensates on ventilation duct work, molds and other surfaces can cause irritation and injury to skin. MEDICAL RESTRICTIONS: There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes. Additives containing certain heavy metal compounds may be present. These ingredients are essentially bound in the NOTE: plastic matrix and are unlikely to contribute to workplace exposure under

4. FIRST AID MEASURES

Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. Seek medical attention.

Wash skin thoroughly with soap and water.

ak medical attention if rash or burn occurs. L.GESTION:

recommended processing conditions.

Not probable. If a large amount is swallowed, seek medical attention.

INHALATION:

Not likely to be inhaled due to physical form.

for molten plastic skin contact, cool rapidly MELT PROCESSING: with water and immediately seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms develop at a later time.

Por skin contact with fume condensate, immediately wash thoroughly with soap and water. If irritation develops seek medical attention.

5. FIRE FIGHTING MEASURES

Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.

Water spray and foam. Water is the best EXTINGUISHING MEDIA:

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ommended because their lack of cooling capacity may permit re-ignition.

HAZARDOUS COMBUSTION PRODUCTS: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, hydrogen cyanide, by rocarbon fragments and carbon dioxide.

-P_SH POINT: LOWER FLAMMABLE LIMIT: UPPER FLAMMABLE LIMIT: Not Applicable Not Established Not Established

AUTOIGNITION:

508C (946F), estimated

CONDITIONS OF FLAMMABILITY:

Requires a continuous flame source to ignite.

EXPLOSION DATA

IMPACT SENSITIVITY:

STATIC DISCHARGE:

Not mensitive to static discharge.

Year WANDLING AND STORAGE) Not sensitive to mechanical impact.

(See HANDLING AND STORAGE)

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Sweep or gather up material and place in proper container for disposal or recovery. (See DISPOSAL INFORMATION)

7. HANDLING AND STORAGE

Follow recommendations on label and in processing guide. Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices. STORAGE:

ORACE:
Store in a dry place away from moisture,
cessive heat and sources of ignition. Avoid storage near foods to prevent d contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, duct work and other surfaces using appropriate personal protection. For powders and residual dusts refer to HANDLING AND STORAGE section.

Ventilation requirements must be locally determined to limit exposure to materials at their point of use. Design techniques and guidelines may be found in publications such as:

Industrial Ventilation; available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901. PERSONAL PROTECTION

EYE/FACE: Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleaning processing fume condensates from boods, ducts and other surfaces.

SKIN: When handling pellets avoid prolonged or repeated contact with skin. When melt processing product wear long pants,

Plastic pellet with slight odor.

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ong sleeves, well insulated gloves and face shield when applicable. Use opropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates. 1 RESPIRATORY: When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and

Acid gases. When dust or powder from secondary operations, such as grinding sanding or sawing, are not adequately controlled use respirator approved for protection from dust.

Solid

Negligible

Not Applicable

>1 Insoluble

Negligible

Negligible

Not Applicable

Not Established

See COMMENT below.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

ODOR AND APPEARANCE:

BOILING POINT: MELTING POINT:

VAPOR PRESSURE (mmHq): VAPOR DENSITY (air=1):

SPECIFIC GRAVITY (water=1):

WATER SOLUBILITY:

% VOLATILES:

pH:

ODOR THRESHOLD:

EVAPORATION RATE:

COEFFICIENT WATER/OIL DISTR: Not Established

This product does not exhibit a sharp malting

point, but softens gradually over a wide temperature range.

Not Applicable

10. STABILITY AND REACTIVITY

>1

STABILITY:

Stable under recommended conditions of

storage and handling.

CTIVITY:

Not reactive under recommended conditions of

handling, storage, processing and use. Do not exceed melt temperature

CONDITIONS TO AVOID: recommendations in product literature. In order to avoid autoignition/ hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water. Do not allow product to remain in barrel at elevated temperatures for extended periods of time; purge with a general purpose resin. (See EXPOSURE CONTROLS/PERSONAL PROTECTION section for respiratory

protection advice.) Processing fumes evolved at recommended HAZARDOUS DECOMPOSITION: processing conditions may include trace levels of styrene, acrylonitrile, acrolein, acetaldehyde, acetophenone, ethylbenzene, cumene, 4-vinylcyclohexene and phenols.

ية خير ويد المساقة بالدينة بالله الله الله يهي بين حب الله على بأنه الله عصبه كما المد 11. TOXICOLOGICAL INFORMATION

PRODUCT:

ACUTE ORAL:

Oral LD50 (Rat) >5 g/kg, estimated.

COMPONENTS: Styrene monomer is listed as a possible carcinogen by LARC. Rats exposed to acrylonitrile by inhalation or ingestion induced brain, zymball gland (no comparable human gland) and stomach tumors.

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	02/03/93- PAGE: 05/06				
12. ECOLOG	ICAL INFORMATION				
CENERAL:	Not expected to present any significant acological problems.				
13. DISPO	SAL INFORMATION				
RCRA HAZARDOUS WASTE: WASTE DISPOSAL: ate in accordance with federa cessing fume condensates shou	Product is not a RCRA hazardous wasta. Recycling is encouraged. Landfill or inciner- , state and local requirements. Collected pro- ld be tested to determine waste classification.				
14. TRANSPO	RTATION INFORMATION				
DOT HAZARD CLASS:	Not Regulated				

PROPER SHIPPING NAME:
IDENTIFICATION NUMBER:
TDGA:

Not Regulated
Not Listed

* \$\text{im} \text{im} \te 15. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

The chemical substance(s) identified under the California Proposition 65 column (B) is (are) known to the State of California to cause cancer.

CHEMICAL SUBSTANCE	CAS NUMBER	LOW WIT	HIGH WT%	· A	В	C.	ם	E	P	Ğ
timony	7440-36-0		6.00	* 🏚	퀶	d	ŧ	100	•	由
	7439-97-6		2.00	台	盦	, 🟚	爾	個	4	40
corry	7439-92-1		2.00	\$	盘	会	会	会	愈	*
Tead Chromium	7440-47-3		2.00	ŵ	盘	4	*	•	₫	*
Cidaius	7440-43-9		2.00	•	*	· 🏚	*	•	\$ €	常
	7782-49-2		2.00	♠		· 🖢	*	*	*	*
Selenium	7740~50~8		2.00	♠`		俞	•	禽	鋷	盘
Copper	7440-39-3		2.00	•		•	· der	4	*	4
Barium	107-13-1				*		Ŕ	*		
Acrylonitrile Styrene	100-42-5	-200	-700	18		龠	Ŕ	カ	de	*

- (1) An ** in one or more of these supplier notification requirement column(s) represents a reportable concentration or warning notification for California Proposition 65.
- (2) This is a recycled product based on feed streams of varying composition. Concentrations given represent maximums for each individual item under worse case conditions.
- A = SARA III
- B = California Proposition 65
- C = Illinois Right-To-Know
- D = Massachusetts Right-To-Know
- E = New Jersey Right-To-Know
- F = Pennsylvania Right-To-Know

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G = Canadian WHMIS

TA STATUS:

PREPARED BY:

A STATUS:
This product complies with the Chemical Stance Inventory requirements of the US EPA Toxic Substances Control Act

(TECA) . IS CLASSIFICATION: D2

16. OTHER

Product Safety (phone) (304) 424-5427

(fax) (304) 424-5689

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use additional safety precautions may be required. POLYMERIAND INC. makes no varranty, either express or implied, including merchantability and fitness. USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

POLYMERIAND is a registered trademark of POLYMERIAND, INC.

REVISIONS IN THIS MSDS SINCE YOUR LAST ORDER ARE IN THE FOLLOWING SECTION(S):