

Cray Valley USA, LLC

Material Safety Data Sheet

Product: MOLTEN A-110 RESIN
MSDS ID: S-001761

Revised Date: 12-22-2009

01. GENERAL INFORMATION

Cray Valley USA, LLC
Oaklands Corporate Center
468 Thomas Jones Way
Exton, Pennsylvania 19341

Emergency phone number:
800/424-9300 (CHEMTREC)

Product information:
610/363-4100

TRADE NAMES:

This MSDS covers the following products: Molten A-110 Resin and Molten A-100 Resin

GENERIC NAME

Aliphatic Hydrocarbon Resin

DOT PROPER SHIPPING NAME

Elevated temperature liquid, n.o.s.

UN/NA NUMBER

UN 3257

DOT HAZARD CLASS/DIVISION

9

PACKING GROUP

III

02. SUMMARY OF HAZARDS

WARNING

PHYSICAL HAZARDS: None known

ACUTE HEALTH EFFECTS: Suspect eye irritation hazard/may injure eye tissue
(SHORT-TERM) Suspect skin irritation hazard/may cause thermal burns
Suspect respiratory tract irritation hazard
Not expected to be toxic if ingested
Not expected to be a skin absorption hazard

CHRONIC HEALTH EFFECTS: No chronic health effects data are known to exist.
(LONG-TERM)

03. COMPONENTS

COMPONENT NAME	CAS NUMBER	% COMPOSITION (BY WT.)
Aliphatic Hydrocarbon Resin	68478-07-9	AP 100%

04. PHYSICAL AND CHEMICAL DATA

BOILING RANGE

N/DA

pH

N/DA

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FREEZING POINT N/DA	DRY POINT N/DA
SPECIFIC GRAVITY (H2O=1 at 39.2F) AP 1.04 at 25C/77F	VOLATILE CHARACTERISTICS Negligible
VISCOSITY UNITS, TEMP. (Brookfield) N/DA	SOLUBILITY IN WATER Insoluble
VAPOR PRESSURE N/DA	STABILITY Stable
VAPOR SP GR (AIR=1 at 60 - 90F) N/DA	HAZARDOUS POLYMERIZATION Will not occur

APPEARANCE AND ODOR
Pale yellow, viscous, molten liquid with typical hydrocarbon odor

CONDITIONS AND MATERIALS TO AVOID
Excessive heat, sparks, open flame and other ignition sources; direct sunlight, water contamination

HAZARDOUS DECOMPOSITION PRODUCTS
Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

05. OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE	SOURCE	TYPE	VALUE
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No PEL or TLV has been established for this material

06. FIRE AND EXPLOSION

FLASH POINT METHOD=(PMCC) 218->288C/425->460F	AUTOIGNITION TEMP. METHOD= N/DA
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FLAMMABLE LIMITS (% VOLUME IN AIR)
LOWER: N/DA UPPER: N/DA

FIRE AND EXPLOSION HAZARDS
When heated above flash point, releases vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along ground before igniting/flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point.

EXTINGUISHING MEDIA
Dry chemical
CO2
Water spray
Foam
Water fog

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SPECIAL FIREFIGHTING PROCEDURES

Do not enter fire area without proper protection. See Section 4 - decomposition products possible. Fight fire from safe distance/protected location. Heat may build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Do not use solid water stream/may spread fire. Use water spraying/fog for cooling. Avoid frothing/explosion. Avoid direct personal contact with liquid even after fire is out to prevent potentially serious burns. Notify authorities if liquid enters sewer/public waters.

07. HEALTH HAZARDS

ROUTES OF EXPOSURE

INHALATION -- PRIMARY ROUTE

Overexposure may cause irritation to the respiratory tract and to other mucous membranes.

EYE CONTACT -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause eye irritation.

Eye contact with this material may injure and cause burns to the eyes and surrounding tissues.

SKIN ABSORPTION

Although no appropriate human or animal health effects data are known to exist, this material is not expected to be a health hazard by skin absorption.

SKIN IRRITATION -- PRIMARY ROUTE

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a skin irritant.

Skin contact with product may cause thermal burns.

INGESTION

Although no appropriate human or animal health effects data is known to exist, this material is not expected to be toxic if ingested. However, ingestion of molten product may injure and cause burns to the affected tissue.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No additional medical information found.

08. PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

No occupational exposure standards have been developed for this material. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

EYE PROTECTION

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Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.

SKIN PROTECTION

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. This equipment must be cleaned thoroughly after each use.

Gloves and protective clothing should be insulated/impervious to protect against contact with molten product.

ENGINEERING CONTROLS

Both local exhaust and general room ventilation are usually required.

OTHER HYGIENIC PRACTICES

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

09. EMERGENCY AND FIRST AID

INHALATION

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

EYE CONTACT

For even minor eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention. Prompt action is essential.

SKIN CONTACT

In case of skin contact with molten product, flood affected areas with cool water for 15-20 minutes. Cover with clean sheeting or gauze and get prompt medical attention. **Do not attempt to remove contaminated clothing and adhered material from skin--skin tearing may occur.**

INGESTION

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. However, if ingested, obtain emergency medical attention.

EMERGENCY MEDICAL TREATMENT PROCEDURES

Treat symptomatically.

10. SPILL AND DISPOSAL

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PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Slippery walking/spread granular cover. Impound/recover large land spill; soak up small spill. On water, material insoluble. Contain/minimize dispersion/collect. Report per regulatory requirements.

WASTE DISPOSAL METHODS

This product is not listed as a hazardous waste. To the best of our knowledge, this product does not meet the criteria of a RCRA hazardous waste when discarded in its purchased form (see 40 CFR 261). However, under RCRA it is the responsibility of the user of a product to determine at the time of disposal whether the product meets any of the criteria of a hazardous waste. This is because the manner in which a product is used, processed, etc. may alter it so that it becomes a hazardous material. Comply with federal/state/local regulations for solid waste disposal. Incinerate or landfill solids at permitted sites. Use registered transporters.

11. ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PROCEDURES

Liquid material is slippery - remove small leaks/spills from walking surface with solid absorbents. Use caution to avoid causing serious injury. Store away from excessive heat, sparks, open flames, and other ignition sources. Do not store in direct sunlight. Protect from freezing. If frozen, thaw and mix thoroughly before use. Use only non-sparking tools and grounded containers. Use proper bonding and grounding procedures. Note: This material is a viscous, molten product and is shipped at elevated temperatures (AP 177C/350F), but below its flashpoint, to facilitate transfer to storage containers or processing vessels. Wear protective equipment and avoid contact with elevated temperature or molten product to prevent burns.

DECONTAMINATION PROCEDURES

Follow standard plant procedures or supervisor's instructions for decontamination operations.

12. LABEL INFORMATION

USE STATEMENT

FOR INDUSTRIAL USE ONLY

SIGNAL WORD

WARNING

HEALTH HAZARDS

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

PRODUCT IS HOT -- CONTACT WITH PRODUCT MAY CAUSE THERMAL BURNS

PRECAUTIONARY MEASURES

KEEP AWAY FROM EXCESSIVE HEAT, SPARKS, OPEN FLAME AND OTHER IGNITION SOURCES.

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

AVOID CONTACT WITH ELEVATED TEMPERATURE OR MOLTEN PRODUCT.

DO NOT BREATHE VAPORS/AEROSOLS.

USE ONLY WITH ADEQUATE VENTILATION/PERSONAL PROTECTION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

WASH THOROUGHLY AFTER HANDLING.

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BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET (MSDS).

13. SUPPLEMENT

NPCA HMIS RATING

Health	2
Flammability	1
Reactivity	0
Personal protection	See Section 8 of MSDS

REGULATORY INFORMATION

TSCA STATUS

TSCA status: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

CALIFORNIA PROPOSITION 65

California Proposition 65 Information: this product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

*Note - qualifiers and codes used in this MSDS

EQ = Equal; AP = Approximately; LT = Less Than; GT = Greater Than;
TR = Trace; UK = Unknown; N/AP = Not Applicable; N/P = No Applicable
Information Found; N/DA = No Data Available

14. DISCLAIMERS

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).