

MATERIAL SAFETY DATA SHEET

ACRYLITHANE HS2

I PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	ACRYLITHANE HS2 ENAMEL CATALYST
PRODUCT CODE	99951
DOCUMENT ID	M99951
CHEMICAL FAMILY	Urethane Co-Reactant
REVISION NUMBER	5
PRIOR VERSION DATE	05-30-2012
COMPANY:	NEOGARD® - DIVISIÓN DE JONES-BLAIR® COMPAÑÍA 2728 Empire Central Dallas, TX 75235
INTERNATIONAL:	703-527-3887
EMERGENCY CONTACT	ChemTrec Center
EMERGENCY PHONE	1-800-424-9300

II HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	DANGER! Combustible liquid and vapor. Causes skin irritation. Causes eye irritation. Vapor and spray mist harmful. Causes nose and throat irritation. Overexposure may cause lung damage. May cause allergic skin and respiratory reaction. Effects may be permanent.
ROUTES OF ENTRY	<ul style="list-style-type: none">• Skin contact• Inhalation• Eye contact• Ingestion

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	<ul style="list-style-type: none"> • Skin absorption
TARGET ORGANS POTENTIALLY AFFECTED BY EXPOSURE:	<ul style="list-style-type: none"> • Skin • Respiratory Tract • Central nervous system • Eyes • Lungs • Blood
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	<ul style="list-style-type: none"> • Skin allergies. • Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapor or spray mist. • Skin allergies. • Respiratory disorders, including but not limited to asthma and bronchitis. • Eye disorders. • Lung disease

Immediate (Acute) Health Effects by Route of Exposure:

INHALATION IRRITATION	Causes nose and throat irritation.
INHALATION TOXICITY	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
SKIN CONTACT	Causes skin irritation. Sensitizer. Avoid exposure. If sensitized, repeated exposures will result in irritation, reddening, and rashes even for very low exposures.
EYE CONTACT	Causes eye irritation.
INGESTION TOXICITY	Harmful if swallowed.

Long-Term (Chronic) Health Effects

INHALATION	Isocyanate vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to
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	<p>generally reversible bronchitis, bronchial spasm and pulmonary edema.</p> <p>Repeated overexposure causes sensitization in some individuals resulting in asthma-like symptoms on subsequent exposures below the TLV.</p> <p>Persons with preexisting bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack.</p> <p>NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.</p>
SKIN CONTACT	Prolonged contact may cause an allergic skin reaction.

III COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #
Homopolymer of Hexamethylene Diisocyanate	80 - 90	28182-81-2
n-Butyl acetate	1 - 5	123-86-4
Light aromatic solvent naphtha	1 - 5	64742-95-6
1,2,4-Trimethylbenzene	0.5 - 1.5	95-63-6

IV FIRST-AID MEASURES

INHALATION	Remove individual to fresh air after an airborne exposure if any symptoms develop as a precautionary measure. If breathing difficulty persists or occurs later, consult a physician and have MSDS available.
EYES	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

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SKIN CONTACT	Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION:	If swallowed, do not induce vomiting. Get medical attention immediately.

V FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY	Combustible liquid and vapor.
EXTINGUISHING MEDIA:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
FIRE AND/OR EXPLOSION HAZARDS:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
FIRE FIGHTING METHODS AND PROTECTION	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
HAZARDOUS COMBUSTION PRODUCTS	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates, Nitrogen containing gases
FLASH POINT (°F/°C):	135 / 57
AUTOIGNITION TEMPERATURE (°F/°C):	797.0 / 425.0

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LOWER FLAMMABLE/EXPLOSIVE LIMIT, % IN AIR:	1.0 %
UPPER FLAMMABLE/EXPLOSIVE LIMIT, % IN AIR	7.5 %

VI ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EQUIPMENT	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
METHODS FOR CLEAN-UP	Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal.

VII HANDLING AND STORAGE

HANDLING TECHNICAL MEASURES AND PRECAUTIONS	Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment.
STORAGE TECHNICAL MEASURES AND CONDITIONS	Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.

VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES	Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical
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	specific standard in 29 CFR 1910.
RESPIRATORY PROTECTION	General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.
EYE PROTECTION	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available
SKIN PROTECTION	Avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Wash hands and other exposed areas with

Control Parameters:

CHEMICAL NAME			
Chemical Name	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Homopolymer of Hexamethylene Diisocyanate	5mg/m TWA	10mg/m (15 Min.)	
n-Butyl acetate	150 ppm TWA; 713 mg/m ³ TWA	200 ppm STEL; 950 mg/m STEL	150 ppm TWA; 710 mg/m TWA
1,2,4-Trimethylbenzene	25ppm; 123mg/m TWA		

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IX PHYSICAL AND CHEMICAL PROPERTIES

COLOR	Colorless
PHYSICAL STATE	LIQUID
BOILING POINT - (°F)	220.0
ODOR	Solvent
VAPOR DENSITY	4.00
VAPOR PRESSURE	8.00 mbar
VOC (G/L) (REGULATORY, CALCULATED)	112.64
VOC (G/L) (ACTUAL, CALCULATED)	112.64
VISCOSITY	500 - 1,000 CPS
SOLUBILITY IN WATER	Reacts slowly with water.
OCTANOL/WATER PARTITION COEFFICIENT	Not Available
VOLATILES, % BY VOLUME (CALCULATED)	12.90
VOLATILES, % BY WEIGHT (CALCULATED)	10.00
DENSITY	9 - 10 lbs./Gal.

Physical and Chemical Properties are calculated target or range values for single packaged items and do not

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represent compliance values for multi-component (mixed) systems.

X STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions.
CONDITIONS TO AVOID	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Moisture (potentially will lead to gas formation and warming). Contamination.
MATERIALS TO AVOID/CHEMICAL INCOMPATIBILITY	Oxidizing agents, Caustics (bases, alkalis), Acids
POLYMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Isocyanates, Nitrogen containing gases

XI TOXICOLOGICAL INFORMATION

Component Toxicology Data

Chemical Name	CAS Number	LD50/LC50
n-Butyl acetate	123-86-4	Oral LD50 Rat 14,130 mg/kg Dermal LD50 Guinea pig 8,770 mg/kg
Light aromatic solvent naphtha	64742-95-6	Oral LD50 Rat 4 - 8 ml/kg Dermal LD50 Rat > 2 g/kg
1,2,4-Trimethylbenzene	95-63-6	Oral LD50 Rat 5 g/kg

Carcinogens

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Chemical Name	CAS Number	IARC	NTP	OSHA
Not applicable				

XII ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below

XIII DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations
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XIV TRANSPORTATION INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.	
DOT BASIC DESCRIPTION	Paint Related Material
HAZARD CLASS:	3
UN NUMBER:	UN1263
PACKING GROUP:	III
OTHER:	This product qualifies for a limited quantity exception per CFR173.150(b)(3) for inner containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).
IATA AIR SHIPPING NAME:	Paint Related Material

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IATA HAZARD CLASS:	3
IATA UN NUMBER:	UN1263
IATA PACKING GROUP:	III
IMO SHIPPING NAME:	Paint Related Material
IMO HAZARD CLASS:	3
IMO UN NUMBER:	UN1263
IMO PACKING GROUP:	III
MARINE POLLUTANT:	N

XV REGULATORY INFORMATION

United States Federal Regulations: TSCA Status: All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.		
	CAS #	%
SARA EHS Chemicals Not applicable		
CERCLA n-Butyl Acetate	123-86-4	1 - 5
SARA 313 1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5

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SARA 311/312 Health (Acute):Y Health (chronic): Y Fire (Flammable): Y Pressure: N Reactivity: Y		
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U. S. State Regulations: California Prop 65 Chemicals

CANCER	CAS #	%
Not applicable		
REPRODUCTIVE		
Not applicable		

Canadian Regulations:

CEPA DSL	The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS HAZARD CLASS	B3

XVI ADDITIONAL INFORMATION

PREPARED BY	Regulatory Department
DISCLAIMER	This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.

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PRINT DATE

September 06, 2012

AL-KOAT^{MR}
IMPERMEABILIZANTES