

Material Safety Data Sheet



Trade name: ALEXSEAL-Finishing Primer 401 Converter

C4051

Product no.: 1551300000000

Version: 1.0.0 / USA

Status: 1/6/2005

1.) Identification of the substance/preparation and company

Product details

Trade name

ALEXSEAL-Finishing Primer 401 Converter

C4051

Identification of the manufacturer / supplier

Address

Mankiewicz Coatings L.L.C
8 Carlisle Drive
Simpsonville, SC 29681
USA

Telephone no. 864-962-6690

Emergency telephone number

CHEMTREC: 800-424-9300 OR 703-527-3887

2.) Composition / information on ingredients

Hazardous ingredients

XYLENE

CAS no.	1330-20-7			
Concentration	> 10	<	30	%-b.w.

3,6-DIAZAOCTAN-1,8-DIAMINE

CAS no.	112-24-3			
Concentration	> 1	<	5	%-b.w.

2-PROPANOL

CAS no.	67-63-0			
Concentration	> 30	<	50	%-b.w.

Polyamine resin

CAS no.	68082-29-1			
Concentration	> 30	<	50	%-b.w.

3.) Hazards identification

Immediate hazards

General

WARNING

Flammable liquid and vapor.

Causes:

skin and eye irritation

May cause:

allergic skin reaction

CAUTION

May be harmful if absorbed through skin.

Potential Health Effects

Eye

Causes eye irritation.

Skin

May cause: skin irritation; allergic skin reaction; May be absorbed through the skin in harmful amounts.

Inhalation

May cause central nervous system depression characterized by the following progressive steps:

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headache, dizziness, staggering gait, confusion, unconsciousness or coma.

Ingestion

May cause vomiting.

Cancer

None of the components present in this material at concentrations equal or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4.) First aid measures

General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

After skin contact

Wash skin thoroughly with soap and water or use recognised skin cleaner. Do NOT use solvents or thinners !

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

After ingestion

When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging. Do not induce vomiting.

5.) Firefighting measures

Suitable extinguishing media

Alcohol resistant foam, CO2, powders, water spray

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment for firefighting

As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA/ NIOSH (approved or equivalent) and full protective gear.

Other information

Cool endangered containers with water in case of fire. Do not allow run-off from firefighting to enter drains or water courses.

6.) Accidental release measures

Personal precautions

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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Methods for cleaning up/taking up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal. Clean preferably with a detergent; avoid use of solvents.

7.) Handling and storage

Handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Take precautionary measures against electrostatic loading. Refer to protective measures listed in section 8. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Storage

Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container in a cool, well-ventilated place.

8.) Exposure controls / personal protection

Additional hints on technical system design.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Exposure limit values

XYLENE

CAS no. 1330-20-7
EC no. 215-535-7

ACGIH

Xylene, isomers

TWA 100 ppm
STEL 150 ppm

LIMITS FOR AIR CONTAMINANTS (OSHA)

Xylenes (o-, m-, p-isomers)

TWA 435 mg/m³ 100 ppm

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2-PROPANOL

CAS no. 67-63-0
EC no. 200-661-7

ACGIH

Isopropyl alcohol
TWA 200 ppm
STEL 400 ppm

LIMITS FOR AIR CONTAMINANTS (OSHA)

Isopropyl alcohol
TWA 980 mg/m³ 400 ppm

Personal protective equipment

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use NIOSH/MSHA approved dust respirator if concentration exceeds recommended exposure levels.

Hand protection

Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only.

Appropriate Material	nitrile
Appropriate Material	rubber
Appropriate Material	neoprene
Material thickness	> 0.44 mm
Durchdringungszeit	> 480 min.

Eye protection

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Skin protection

fire-resistant antistatic protective clothing

General protective and hygiene measures

Remove soiled or soaked clothing immediately. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation. Do not eat, drink or smoke during work time.

9.) Physical and chemical properties

General information

Form	liquid
Color	according product name
Odor	amine-like

Important health, safety and environmental information

Changes in physical state

Type	Boiling point		
Value	appr.	248	°F
Pressure	1013	mbar	

Flash point

Value	appr.	55.4	°F
Method	DIN 53213		

Ignition temperature

Value	appr.	752	°F
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Explosion limits

Remarks not applicable

Vapor pressure

Value appr. 100 mbar
Reference temperature 122 °F

Density

Value appr. 11.68 lbs/gallon
Reference temperature 68 °F

Viscosity

Type Efflux time
Value < 13 sec
Method DIN cup 4 mm
Reference temperature 77 °F

Solubility in water

Remarks insoluble

10.) Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11.) Toxicological information

Experience in practice

When inhaled in larger quantities, the solvent vapours cause a narcotic effect.

The product can cause skin and eye irritation.

Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

Possibility of sensitization through skin contact.

12.) Ecological information

General information / ecology

Ecological data are not available.

Do not discharge product unmonitored into the environment.

13.) Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

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14.) Transport information

US DOT

Class	3
Packaging group	II
Label	FLAMMABLE LIQUID
UN/NA number	1263
Technical name	Paint

Marine transport IMDG

Class	3
Packaging group	II
UN number	1263
Proper shipping name	Paint
Label	3

Air transport ICAO/IATA

Class	3
Packaging group	II
UN number	1263
Proper shipping name	Paint
Label	3

15.) Regulatory information

Regulations

US Federal Regulations

TSCA (Toxic Substances Control Act)

All components are listed on the TSCA inventory.

Clean Water Act (CWA):

Following ingredients are listed:

CAS-No. 1330-20-7

Clean Air Act:

None of the ingredients is listed.

SARA Section 302 (RQ):

None of the ingredients is listed.

SARA HAZARD CATEGORY (Section 311/312)

Fire, Health Hazards.

SARA Section 313 INFORMATION:

Following ingredients are listed:

CAS-No. 67-63-0; 1330-20-7

HAPS (Hazardous Air Pollutants):

Following ingredients are listed:

CAS-No. 1330-20-7

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

Following ingredients are Hazardous by definition of Hazard Communication Standard:

CAS-No. 67-63-0; 90-72-2; 112-24-3; 1330-20-7;

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State Regulations

California Proposition 65.

None of the ingredients is listed.

Pennsylvania HAZARDOUS SUBSTANCE LIST

Following ingredients are listed:

CAS-No. 67-63-0; 112-24-3; 1330-20-7

New Jersey Worker and Community Right to Know Act.

Following ingredients are listed:

CAS-No. 67-63-0; 112-24-3; 1330-20-7

US Federal Regulations

Volatile organic compounds (VOC)

VOC as manufactured:

(pound/pound) 1.86

Other international listings

IARC

Following ingredients are listed in IARC Group 3:

CAS-No. 1330-20-7; 67-63-0

16.) Other information

HMIS Classification

Flammability :	3
Health	2
PPE	G
Reactivity	0

NFPA Rating

Fire Hazard	3
Health	2
Reactivity	0

Other information

Abbreviations:

ACGIH American Conference of Governmental Hygienics

CAS Chemical Abstracts Service

HAPS Hazardous Air Pollutants

HMIS Hazardous Material Identifikation System

IARC International Agency for Research on Cancer

IDLH Immediate Dangerous to Life and Health

LEL Lower Explosion Limit

NTP National Toxicology Program

OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

PPE Personal Protection Equipment

SARA Superfund Amendments and Reauthorization Act

STEL Short-Term Exposure Level (15 minutes)

TWA Time-Weighted Average (8 hours)

UEL Upper Explosion Limit

VOC Volatile Organic Compounds

WEEL Workplace Environmental Exposure Level

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Department issuing safety data sheet

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 b, D-21107 Hamburg

Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.