



THE HANSON GROUP, LLC

900 McFarland 400 Blvd, Alpharetta, GA 30004

Telephone 770-495-9554/Fax 770-495-9449

E-mail: sales@hansonco.net

www.hansonco.net

PolyLink 4230 **MATERIAL SAFETY DATA SHEET** Date Issued: 5/23/2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

The Hanson Group, LLC
900 McFarland 400 Blvd
Alpharetta, GA 30004 USA
770-495-9554

PRODUCT DESCRIPTION: Mixture of Amines

PRODUCT CODE: PolyLink 4230

GENERIC NAME: Amines

Emergency Assistance - 24 hour Emergency Telephone Numbers:

USA (CHEMTREC) : + 1-800-424-9300

Outside USA (CHEMTREC) : + 1-703-527-3887

2. HAZARD IDENTIFICATION

N.E. - None Established

Classification: not classified

Symbol: not applicable

Signal Word: none

Hazard Statement: none

Emergency Overview

Physical Appearance: Dark Amber Liquid

Immediate Concerns: May be harmful if ingested. May cause mild skin and eye irritation. The product is considered harmful via ingestion. The product is combustible and toxic vapors may be given off in a fire. This product can burn and give off toxic vapors in a fire.

Potential Health Effects:

Primary Routes of Exposure: Contact with skin, eyes and inhalation of product vapor. Product ingestion is unlikely to occur if proper safety/hygiene procedures are followed.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: Harmful if swallowed. May be harmful if swallowed.

Inhalation: Inhalation of product vapors or mist may cause irritation of the respiratory system.

Carcinogenicity Classification:**International Agency for Research on Cancer (IARC):**

Neither the product nor the components are classified.

U.S. National Toxicology Program (NTP):

Neither the product nor the components are classified.

U.S. Occupational Safety and Health Administration (OSHA):

Neither the product nor the components are classified or regulated.

American Conference of Governmental Industrial Hygienists (ACGIH):

Neither the product nor the components are classified.

Target Organ: Overexposure may cause kidney damage. Prolonged or repeated exposure may cause liver and blood changes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: N,N'-Dialkylaminodiphenylmethane

CAS: 5285-60-9

WEIGHT %: <85

CHEMICAL NAME: Tetrapropoxylatedethylene diamine

CAS: 102-60-3

WEIGHT %: <20

4. FIRST AID MEASURES

4.1 Eye contact: Flush immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

4.2 Skin contact: REMOVE FROM SKIN IMMEDIATELY. Take off all contaminated clothing immediately. Remove adhering matter immediately. Use waterless hand cleaner. Then wash with lots of water and soap. Consult a physician.

4.3 After inhalation: Remove the victim into fresh air. If symptoms persist, call a physician.

4.4 After ingestion: Do not induce vomiting. Call a physician immediately.

4.5 Notes to physician: In the unlikely event that large quantities of the product are ingested, gastric lavage should be considered. Aspiration into the lungs may cause chemical pneumonia. An activated charcoal slurry taken within 30 minutes of product ingestion may reduce the toxicity of the chemical. A 5:1 ratio of charcoal to material ingested is the recommended dosage. Activated charcoal should not be considered as an antidote; normal symptomatic treatment is recommended with or without the administration of activated charcoal.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media: Water spray. Foam. Dry chemical. Carbon dioxide (CO₂).

5.2 Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.3 Fire and explosion hazards: Cool containers / tanks with water spray. In the event of fire and/or explosion do not breathe fumes. Heating/burning can release hazardous gases: carbon oxides (CO, CO₂), nitrogen oxides (NO_x).

5.4 Special protective equipment: Wear protective clothing. In case of respirable dust and/or fumes, use self-contained breathing apparatus.

5.5 Flash Point: 350°F (177°C)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal protection: See 8.2

6.2 Environmental precautions: Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Clean-up: Remove all sources of ignition. Stop leak at source. Keep people away from and upwind of spill/leak.

Contain material using temporary measures such as sand bags, booms or adsorbent socks. Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust). Never use spilled product. Spilled product should be disposed of in accordance with all applicable government regulations. Small amounts: Soak up with inert absorbent material and dispose of in accordance with applicable regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store product in original containers. Store container in a secure cool, dry, well-ventilated area at 55-85 deg. F. Opened containers should be blanketed with nitrogen gas at atmospheric pressure to avoid reaction with moisture. Contamination with moisture or "basic" compounds can cause dangerous pressure buildup in closed containers.

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Avoid breathing in vapors, mists, and aerosols. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

STORAGE: Store and warehouse product in an appropriate area or facility. Segregate like materials together to avoid negative chemical reactions. Protect materials from excessive exposure to heat. Store in a cool, well-ventilated area. Store in original container. Keep away from heat and sources of ignition.

COMMENTS: If bulging of containers occurs, transfer to a well-ventilated area and open carefully to relieve pressure then reseal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering measures: Ensure adequate ventilation, especially in confined areas.

8.2 Personal protection equipment: Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Eye protection: Tightly fitting safety goggles. Face-shield.

Hand protection: Solvent-resistant gloves.

Skin and body protection: Solvent-resistant apron and boots. Protective suit. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment with filter classification: N-95 or if oil/liquid aerosols are present P-95 (42 CFR 84). In USA use a NIOSH/MSHA approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

These data do not represent technical or sales specifications.

9.1 Form: Liquid

9.2 Color: Dark amber

9.3 Odor: Hydrocarbon-like

9.4 pH: N.A.

9.5 Boiling point/range: 664°F (351°C)

9.6 Melting point/range: N.D.

9.7 Flash point: 350°F (177°C)

9.8 Autoignition temperature: N.D.

9.9 Bulk density: N.A.

9.10 Explosion limits: N.D.

9.11 Vapor pressure: <1 mmHg @ 68°F (20°C)

9.12 Relative density/Specific Gravity: 1.01

9.13 Vapor density: >1

9.14 Viscosity: 230 cSt @ 100°F (38°C)

9.15 Water solubility: N.D.

9.16 Solubility: N.D.

Abbreviations: N.D. - Not Determined

N.A. - Not Applicable

10. STABILITY

10.1 Stability: Stable at normal conditions. Decomposes on heating.

10.2 Hazardous decomposition products: No decomposition if used as directed. Under conditions giving incomplete combustion, hazardous gases produced may consist of carbon oxides (CO, CO₂) and nitrogen oxides (NO_x).

10.3 Conditions/Materials to avoid: Keep away from ignition sources. Incompatible with oxidizing and reducing agents. May corrode base metals.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:

LD50/oral/rat = No data available.**

LD50/dermal/rabbit = No data available.

LC50/inhalation/rat = No data available.

11.2 Chronic toxicity: Classification of Ingredients

EC Carcinogenic: Not listed.

EC Mutagenic: Not listed.

EC Toxic for Reproduction: Not listed.

Carcinogenicity (ACGIH): Not listed.

IARC classification: Not listed.

11.3 Routes of exposure: Exposure may occur via inhalation, contact with skin and eyes.

11.4 Irritation:

Skin (rabbit): Mild skin irritation. *

Eye (rabbit): Mild eye irritation. *

11.5 Additional product information:

Avoid repeated and prolonged exposure.

* The toxicological data has been taken from products of similar composition.

** The product contains a component which is harmful if swallowed.

11.6 Additional component information:

No data available.

12. ECOLOGICAL INFORMATION

12.1 Mobility: No data available.

12.2 Biodegradation: No data available.

12.3 Bioaccumulation: No data available.

12.4 Aquatic toxicity: No data available.

12.5 Further Information: No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Provisions relating to waste: EPA - Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Management Regulations.

13.2 Disposal information: Dispose of in compliance with all applicable regulations. Can be incinerated, when in compliance with the local regulations. Empty remaining contents. Do not reuse empty containers.

This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity).

14. TRANSPORT INFORMATION

14.1 Proper shipping name: Not applicable.

14.2 UN-No.: Not applicable.

Packing group: N.A.

14.3 U.S. DOT Not regulated.

DOT Shipping name: N.A.

Hazard classification: N.A.

14.4 IMO: Not regulated.

EmS: N.A.

MFAG: N.A.

Marine pollutant: No

14.5 ICAO - IATA: Not regulated.

Instruction "passenger": N.A.

Instruction "cargo": N.A.

14.6 Further Information:

Not classified as hazardous or dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

United States

Toxic Substances Control Act (TSCA):

All the ingredients of this mixture are registered on the TSCA Chemical Substance Inventory.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity:

The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

-- None --

SARA Title III (Superfund Amendments and Reauthorization Act of 1986):

Section 302 (Extremely Hazardous Substances):

The following component(s) of this product is/are subject to the emergency planning provisions of 40 CFR 355 when there are amounts equal to or greater than the Threshold Planning Quantity (TPQ):

-- None --

Section 313 (Toxic Chemicals):

The following component(s) have been specified as Toxic Chemicals under SARA Section 313 and may be subject to the Toxic Release Inventory (TRI) reporting requirements under 40 CFR 372:

-- None --

The following components are listed in U.S. State Regulations:

State Reg Reference: State Reg Reference:

California - Proposition 65: None.

Massachusetts Right-To-Know: None.

New Jersey Right-To-Know: None.

Pennsylvania Right-To-Know: None.

Note: Other U.S. State Regulations may exist, check your local sources if available.

Canadian Hazardous Products Act:

This product is not classified as a controlled product under regulations pursuant to the Federal Hazardous Product Act (e.g. WHMIS).

Canadian Environmental Protection Act:

All the ingredients of this mixture are notified to CEPA and on the DSL (Domestic Substances List).

European Union (EU)

European Inventory of Existing Commercial Chemical Substances:

All components of this product are included in EINECS/ELINCS.

Council of European Communities Directive on Classification, Packaging and Labeling of Dangerous Substances/Preparation (67/548/EEC & 88/379/EEC):

The following label information applies:

Symbol(s): Xn - Harmful

Contains: N,N'-dialkylamino-diphenylmethane

Risk Phrases: R22 Harmful if swallowed.

Safety phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

MANUFACTURER DISCLAIMER: This MSDS to the best of our knowledge conforms to the requirements of OSHA 29 CFR 1910.1200, 91/155/EEC and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.