



SDS (SAFETY DATA SHEET)
İZOTÜP SPRAY FOAM INSULATION KIT
COMPONENT A

Issue Date:08.11.2022

1 – IDENTIFICATION

Product Name: IZOTUP SPRAY FOAM KIT (QR 200,600 - HFO)

Company Identification: CIHAN POLIURETAN IZOLASYON INS. SAN. TIC. LTD. STI.

Osman Kavuncu Cad. No:221/C MELIKGAZI/KAYSERI, TURKEY

Customer Information Number: (+90) 850 304 56 38

2 - HAZARDS IDENTIFICATION

GHS Classification

Acute Tox. 4 Inhalation, Carc. 2, Comp. Gas, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1,

STOT RE 2, STOT SE 3 NE,

STOT SE 3 RTI

Symbol(s) of Product



Signal word: **WARNING!**

Hazard Statements:

H280 Contains gas under pressure; may explode if heated

H315 Causes skin irritation

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure

Prevention:

P202 Do not handle until all safety precautions have been read and understood

P251 Pressurized container: Do not pierce or burn, even after use

P260 Do not breathe mist/vapors/spray

P264 Wash hands and other skin areas exposed to material thoroughly after handling

P271 Use outdoors or in a well-ventilated area

P280 Wear protective gloves, protective clothing and eye protection

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment: Seek immediate medical advice. Refer to product label and Section 4 of this SDS

P333+P313 If skin irritation or rash occurs: Get medical attention

P337+P313 If eye irritation persists: Get medical attention

P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Disposal: P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

3-COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical characterization (preparation):

% by Weight	Ingredient	CAS No
30-60	4,4' Diphenylmethane diisocyanate	101-68-8
30-60	Polymethylene polyphenyl isocyanate	9016-87-9
10-20	1233zd HFO Propellant	102687-65-0
<10	Nitrogen	7727-37-9
>= 1 - < 5 %	Carbon dioxide	124-38-9

4-FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation: If product vapors cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen. If respiratory arrest occurs, start artificial respiration by a trained individual. Loosen tight fitting clothing such as a jacket or tie. Seek medical attention immediately.

Eye: Immediately flush eyes with large amounts of water for at least 15 minutes, holding the eyes open with fingers and occasionally lifting the upper and lower lids. Use lukewarm water if possible. If present and easy to do, remove contact lenses. If irritation persists, get medical attention.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Gently wipe product from skin with a damp cloth and continue rinsing for 15 minutes. Wash clothing before reuse. Call a physician if irritation persists.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 Notes to the physician

If case of an accident or if you feel unwell, seek medical advice immediately (show label or SDS if possible)

5. FIRE-FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may burst if exposed to extreme heat or fire. Containers may explode if exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

6- ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled material and remove with inert absorbent.

Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations. Use personal protective equipment as necessary. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Scrape up dried material and place into containers.

Uncured product is very sticky, so carefully remove the bulk of the foam by scraping it up and then immediately remove residue with a rag and solvent such as polyurethane cleaner, mineral spirits, acetone (nail polish remover), paint thinner, etc. Once the product has cured, it can only be removed physically by scraping, buffing, etc. Dispose as plastic waste (foam plastic) in accordance with all applicable guidelines and regulations.

7-HANDLING AND STORAGE

HANDLING: KEEP OUT OF REACH OF CHILDREN!

DO NOT TAKE INTERNALLY. Make sure nozzle is directed away from yourself prior to discharge. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Do not breathe dust. While dry sanding, use of a NIOSH-approved dust mask is recommended. Wash thoroughly after handling. Contains isocyanates. See information supplied by the manufacturer. Persons allergic to isocyanates,

and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

STORAGE: Store away from sources of ignition and heat. Protect material from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Store away from caustics and oxidizers.

8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control Parameters

Ingredient A	CAS Number	OSHA-PEL	ACGIH-TLV	Other
Diethylene Glycol	111-46-6			WEEL 10 mg/kg
trans-1-Chloro-3,3,3 trifluoropropene	102687-65-0			WEEL 800 ppm
Carbon dioxide	124-38-9			5,000 ppm
Ethylene Glycol	107-21-1		100 mg/m3	

8.2 Exposure controls:

Engineering Controls: Use local and general exhaust ventilation to control levels of exposure.

Eye/face Protection: Wear protective goggles or safety glasses with side shields.

Hand Protection: Use chemically resistant gloves (i.e., Nitrile gloves). Nitrile/butadiene rubber, butyl rubber, polyethylene, PVC (vinyl), or neoprene gloves are also effective. Glove selection should consider potential body reactions to certain materials and manufacturer's instructions for use. Break through time of selected gloves must be greater than the intended use period.

Other Protective Equipment: Use clothing that protects against dermal exposure. Appropriate protective clothing varies depending on the potential for exposure. To ensure proper skin protection, wear PPE in such a manner that no skin is exposed.

Respiratory Protection: RESPIRATORY PROTECTION: When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary. No personal respiratory protective equipment normally required. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended.

Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary.

Ventilation controls must be in place. Note: If used in other applications other than underground mining, please contact İZOTUP(+90 850 304 5638) for guidance. A respirator with organic vapor cartridges is required.

Hygiene Measures: An eye wash station or portable eye wash station should be in the area. Wash hands thoroughly after use, before eating, drinking or using the lavatory. Employees/Users should be educated and trained in the safe use and handling of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cream	Physical State: Foam
Odor: Slight Solvent	Odor Threshold: Not Established
Density, g/cm³: 0.38 - 1.23	pH: Not Applicable
Freeze Point, °C: Not Established	Viscosity (mPa.s): Not Applicable
Solubility in Water: No Information	Partition Coeff., n-octanol/water: Not Established
Decomposition Temperature, °C: Not Established	Explosive Limits, %: N.E. - N.E.
Boiling Range, °C: N.E. - N.E.	Auto-Ignition Temperature, °C: Not Established
Minimum Flash Point, °C: Not Applicable Vapor Pressure, mmHg: Not Established	Vapor Pressure, mmHg: Not Established
Evaporation Rate: Faster Than n-Butyl Acetate	Flash Method: Not Applicable
Vapor Density: Heavier Than Air	Flammability, NFPA: Non-Flammable
Combustible Dust: Does not support combustion	

SECTION 10- STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions of use and recommended storage conditions. See Section 7 for storage recommendations.

10.3 Possibility of hazardous reactions

Exposure to elevated temperatures can cause containers to rupture or explode. Contents are under pressure.

10.4 Conditions to avoid

Temperatures below 60°F (16°C) or temperatures above 90°F (32°C). Avoid heat and flames.

10.5 Incompatible materials

Alcohols, strong bases, amines, metal compounds, ammonia, and strong oxidizers.

10.6 Hazardous decomposition products

See Section 5 for hazardous decomposition products due to combustion.

11- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Signs and Symptoms of Exposure based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Mist or vapor may cause irritation of the nose, throat and respiratory tract. Symptoms may include sore throat, coughing, headache, nausea and shortness of breath. Inhalation of propellant may cause lightheadedness, headache and lethargy.

Skin Contact:

May cause mild skin irritation. Symptoms may include localized redness and discomfort.

Eye Contact:

May cause serious eye irritation. Symptoms may include redness, swelling, stinging, and tearing. May cause temporary corneal injury.

Product vapor may cause eye irritation with symptoms of burning and tearing.

Ingestion:

May cause gastrointestinal irritation: stomach distress, nausea, or vomiting. Repeated ingestion may be harmful.

Acute toxicity:

LD/LC50 Values that are relevant for classification: None

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect

Sensitization: Based on available data, the classification criteria are not met

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

NTP (National Toxicology Program): None of the ingredients are listed

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed

Probable routes of exposure: Inhalation, eye contact and skin contact.

Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes and skin.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met

Specific organ toxicity- single exposure

No data available

Specific organ toxicity- repeated exposure

No data available

Aspiration hazard

No data available

Other: This product has not been tested. The above information has been derived from the properties of the individual components

11.2 Further Information

None of the components of this product are listed as carcinogens by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse or fertility effects.

Chronic toxicity from prolonged and repeated exposure to Diethylene glycol (DEG) is associated with kidney, and to a lesser degree liver effects. Available data indicates that DEG is negative in in-vitro genotoxicity tests

12- ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The ecotoxicity of this product has not been experimentally determined. However, it is expected to have low acute aquatic toxicity based on the acute aquatic toxicity of the individual components and their concentrations in this composition.

12.2 Persistence and degradability Product is readily biodegradable.

12.3 Bioaccumulation potential Product is not expected to bioaccumulate

12.4 Mobility No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects

Additional ecological information: Do not allow material to run into surface waters, wastewater, or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13- DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Always wear proper protective equipment as you would while spraying the two-component foam in a well-ventilated area.

Procedure for handling empty or partially used disposable cylinders (not returnable):

1. DO NOT INCINERATE CYLINDERS.

2. Empty cylinders by dispensing the foam into a waste container like a cardboard box or plastic bag. Depressurize the used

cylinders using the dispensing unit with a new nozzle attached. Spray the foam until one of the components/cylinders no longer sprays chemical.

3. Remove the nozzle and then continue to depressurize by dispensing the remaining chemical(s) into a waste container (a box lined with a plastic bag) that has adequate industrial liquid absorbing medium in the bottom. Dispense the residual chemicals until the pressure is down to a minimum or there are just large bubbles in the hose.

4. Close the cylinder valves completely, and then operate the dispensing unit again to empty and depressurize the hoses. Use a 9/16" wrench and remove the hoses from the cylinders. Use caution in case there is some residual chemical and/or pressure in the hoses.

5. Invert the cylinder and point away from face. Slowly open the cylinder over the waste container to catch any residual spray.

6. Return the cylinder to an upright position. Shake the container; there should not be any sloshing of liquid. Make sure to leave valves OPEN-do not close. DO NOT PUNCTURE.

7. The user of this material has the responsibility to dispose of empty cylinders, unused material and residues in compliance to all applicable federal, state, international and local regulations regarding the treatment, storage, and disposal for hazardous and nonhazardous wastes. Check with your local waste disposal service for guidance.

NOTE: After dispensing if one cylinder has chemical left in it, treat as hazardous material.

14- TRANSPORTATION INFORMATION

Note: Transportation information is for reference only. Customer is urged to consult 49 CFR 100-177, IMDG, IATA, EC, United Nations.

DOT

Proper Shipping Name: CHEMICAL UNDER PRESSURE, N.O.S. (Inert Gases)

UN Number: UN 3500

Class: 2.2

Packing Group: N/A

Classification for SEA Transport (IMO-IMDG)

Proper Shipping Name: CHEMICAL UNDER PRESSURE, N.O.S. (Inert Gases)

Un Number: UN 3500

Class: 2.2

Packing Group: N/A

Marine Pollutant: NO

Transport in bulk Consult IMO regulations before transporting ocean bulk

According to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Classification for AIR Transport (IATA/ICAO)

Proper Shipping Name: CHEMICAL UNDER PRESSURE, N.O.S. (Inert Gases)

Un Number: UN 3500

Class: 2.2

Packing Group: N/A

SECTION 15 – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Sudden Release of Pressure Hazard

SARA 313 Information: No components of the product are subject to reporting levels established by Section 313 of the Emergency

Planning and Community Right-to-Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of the Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) report levels established by these sections of the Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): None of the substances in this product are contained in levels that exceed the threshold (de minimis) reporting levels established by CERCLA.

Clean Air Act (CAA) – This product does not have any components listed as a Hazardous Air Pollutant (HAP) designated in CAA

Section 112 (b). This product does not contain any Class 1 or Class 2 Ozone depletors.

Clean Water Act (CWA) – This product does not have any components listed as a Hazardous Substance under the CWA. None of the

chemicals in these products are listed as Priority Pollutants under the CWA. None of the chemicals listed in these products are listed as Toxic Pollutants under the CWA.

U.S. State Regulations:

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None of the chemicals are listed.

Other U.S. State Inventories:

Diethylene glycol (CAS#111-46-6) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air

16 – OTHER INFORMATION

Revision Date: 08/11/2022

Reason for revision: Substance and/or Product Properties Changed in Section(s):

01 - Product Information

08 - Exposure Controls/Personal Protection

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	Flammability:	Reactivity:	Personal Protection:
1	1	0	X

VOC Less Water Less Exempt Solvent, g/L: 0.0

VOC Material, g/L: 0

VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.00

VOC Actual, Wt/Wt%: 0.0

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient

GHS06



GHS07



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, of merchantability or fitness for a particular use are made hereunder with respect to this information or the product to which information refers. Information contained herein is deemed to be reliable, conservative and accurate Cihan Poliüretan Ltd. Sti. reserves the right to change the design, specifications, or any other features at any time and without notice, while otherwise maintaining regulatory compliance.

This SDS is prepared by KAVI DANISMANLIK SAN. TIC. LTD. STI.

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Chemical Evaluation Specialist Handan KAVI

Certificate No: TUV 11.25.04 08.11.2022