

TEAM[®] Industrial Services
SAFETY DATA SHEET

1. Product and Company Identification

Material name SEALANT 155K CAT
Version # 00
Issue date 01-14-2013
Revision date 01-14-2013
Supersedes date -
Chemical name Organic Catalyst
Chemical description Catalyst
CAS # 100-97-0
Product code 800-0052
Product use Industrial Leak Sealant
Manufacturer information
Manufacturer/Supplier Team Industrial Services, Inc.
200 Hermann Drive, Alvin, Texas 77511
Emergency Contact CHEMTREC - 24 HOURS
USA: CHEMTREC: 800-424-9300
International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state Solid.
Appearance White powder with black specks.
Emergency overview WARNING
Flammable Solid.
May cause allergic skin reaction. May cause eye, skin and respiratory tract irritation.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure Eye contact. Ingestion. Inhalation. Skin contact.
Eyes Dust may irritate the eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Skin May cause allergic skin reaction. Dust may irritate skin.
Inhalation Dust may irritate throat and respiratory system and cause coughing.
Ingestion May cause discomfort if swallowed.
Target organs Eyes. Respiratory system. Skin.
Chronic effects May cause allergic skin reaction. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Signs and symptoms Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin irritation. Sensitization.
Potential environmental effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Hexamethylenetetramine	100-97-0	50 - 100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.
Skin contact	Remove contaminated clothing. Wash immediately with soap and water for at least 15 minutes. In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.
Ingestion	Immediately give plenty of water (if possible charcoal slurry). Never give liquid to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

Notes to physician Persons with pre-existing respiratory tract, skin and lung (such as asthma) disorders may be aggravated by exposure to this product. Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Flammable solid.

Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media No restrictions known.

Protection of firefighters

Specific hazards arising from the chemical Dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire fighting equipment/instructions Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products Ammonia. Carbon oxides. Cyanide compounds. Formaldehyde. Nitrogen oxides (NO_x).

6. Accidental Release Measures

Personal precautions Avoid inhalation of dust and contact with skin and eyes. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.

Methods for cleaning up Eliminate all ignition sources. Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. The vacuum cleaner should be explosion-proofed. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Never return spills in original containers for re-use.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Avoid inhalation of dust and contact with skin and eyes. Dust clouds may be explosive under certain conditions. Flammable Solid. Ground container and transfer equipment to eliminate static electric sparks. Use only with adequate ventilation. Use non-sparking tools and explosion-proof equipment. Use personal protective equipment as required.

Storage Follow rules for flammable solids. Keep away from heat, spark, open flames and other sources of ignition. Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering controls	Ventilate as needed to control airborne dust. Observe occupational exposure limits and minimize the risk of inhalation of dust. Use explosion-proof equipment.
Personal protective equipment	
Eye / face protection	Wear approved safety goggles.
Skin protection	Wear protective gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Seek advice from local supervisor.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	White powder with black specks.
Physical state	Solid.
Form	Powder.
Color	White with black specks.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	536 °F (280 °C) Sublimes.
Solubility (water)	Completely soluble in water.
Specific gravity	1
Flash point	381 °F (193.9 °C) Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	734 °F (390 °C)
Partition coefficient (n-octanol/water)	No data available.
Other data	
Flash point class	Combustible IIIB

10. Chemical Stability & Reactivity Information

Chemical stability	The product is hygroscopic and will absorb water by contact with the moisture in the air.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Attacks aluminum and zinc.
Hazardous decomposition products	Ammonia. Cyanide compounds. Formaldehyde.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Sensitization	May cause allergic skin reaction.
Acute effects	May cause skin and eye irritation.

Local effects	Dust may irritate throat and respiratory system and cause coughing. May cause discomfort if swallowed.
Chronic effects	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Carcinogenicity	Not classified.
Epidemiology	Persons with pre-existing respiratory tract, skin and lung (such as asthma) disorders may be aggravated by exposure to this product.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Neurological effects	Not available.
Reproductive effects	Not available.
Teratogenicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Symptoms and target organs	Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin irritation. Sensitization.
Further information	No other specific acute or chronic health impact noted.

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	No data available.
Bioaccumulation / Accumulation	No data available.
Partition coefficient	No data available.
Mobility in environmental media	The product is soluble in water.

13. Disposal Considerations

Waste codes	Not regulated.
Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1328
Proper shipping name	Hexamethylenetetramine
Hazard class	4.1
Packing group	III
Environmental hazards	III

Marine pollutant No

IATA

UN number	UN1328
UN proper shipping name	Hexamethylenetetramine
Transport hazard class(es)	4.1
Packing group	III
Environmental hazards	No
Labels required	4.1

IMDG

UN number	UN1328
UN proper shipping name	HEXAMETHYLENETETRAMINE
Transport hazard class(es)	4.1
Packing group	III

Environmental hazards

Marine pollutant No
Labels required 4.1

TDG

Proper shipping name HEXAMETHYLENETETRAMINE
Hazard class UN 4.1
number Packing UN1328
group Marine III
pollutant Labels No
required 4.1

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A) No

Section 311/312 (40 CFR 370) Yes

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) Not controlled

Canadian regulations This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS status Controlled

WHMIS classification B4 - Flammable Solids

WHMIS labeling**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.
F - Safety Glasses, Gloves, Apron, Dust Respirator

HMIS® ratings Health: 2
Flammability: 1
Physical hazard: 0
Personal protection: F

NFPA ratings Health: 2
Flammability: 1
Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.