

Material Safety Data Sheet



Revision Number: 002.2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SIA-655
Product type: Adhesive

IDH number: 750910

Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Solvent
Color: Clear
Odor: Acetone

HMIS:

HEALTH: *2
FLAMMABILITY: 4
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

DANGER: FLAMMABLE LIQUID AND VAPOR.
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
The aerosol container is under pressure. Do not expose to high temperatures.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: At very high concentrations, isobutane may act as an asphyxiant and cause headache, drowsiness, dizziness, excitation, excess salivation, vomiting, and unconsciousness. May cause irritation to nose and throat. May cause central nervous system effects with nausea, dizziness and headache.

Skin contact: Contact with material may cause frostbite. Tissue damage. May cause irritation due to defatting of the skin.

Eye contact: May cause severe eye irritation.

Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspirated material can enter the lungs and result in pneumonitis.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders. Exposure to Methyl Ethyl Ketone may enhance the neurotoxicity of n-Hexane and Methyl -n- Butyl Ketone. This synergistic effect has resulted in peripheral neuropathy in humans. Reports have associated prolonged and repeated 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.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Petroleum gases, liquified, sweetened	68476-86-8	30 - 60
Acetone	67-64-1	10 - 30
n-Hexane	110-54-3	5 - 10
Solvent naphtha (petroleum), light aliphatic	64742-89-8	5 - 10
Resin acids and Rosin acids, esters with pentaerythritol	8050-26-8	1 - 5
Isohexane	107-83-5	1 - 5
Pentane, 3-methyl-	96-14-0	1 - 5
Cyclohexane	110-82-7	0.1 - 1
Talc	14807-96-6	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.
Skin contact:	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Get immediate medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
Ingestion:	Drink 1 or 2 glasses of water. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	-104 °C (-155.2 °F)
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Use NFPA Class B fire extinguishers (Carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.
Special firefighting procedures:	Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.
Unusual fire or explosion hazards:	During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Do not puncture or incinerate pressurized containers. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.
Hazardous combustion products:	Smoke. Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.

Clean-up methods:

Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Dispose of contaminated material as waste according to item 13.

7. HANDLING AND STORAGE

Handling:

Do not puncture or incinerate pressurized containers. Do not handle or store near an open flame, heat or other sources of ignition.

Storage:

For safe storage, store at or below 46 °C (114.8 °F)
Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Petroleum gases, liquified, sweetened	None	None	None	None
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m ³) TWA	None	None
n-Hexane	(SKIN) 50 ppm TWA	500 ppm (1,800 mg/m ³) TWA	None	None
Solvent naphtha (petroleum), light aliphatic	None	None	None	None
Resin acids and Rosin acids, esters with pentaerythritol	None	None	None	None
Isohexane	500 ppm TWA 1,000 ppm STEL	None	None	None
Pentane, 3-methyl-	500 ppm TWA 1,000 ppm STEL	None	None	None
Cyclohexane	100 ppm TWA	300 ppm (1,050 mg/m ³) TWA	None	None
Talc	2 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.3 mg/m ³ TWA Total dust.	None	50 ppm

Engineering controls:

Work should be done in an adequately ventilated area (i.e., ventilation sufficient to maintain concentrations below one half of the PEL and other relevant standards). Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solvent
Color:	Clear
Odor:	Acetone
Odor threshold:	Not available
pH:	Not applicable
Vapor pressure:	Not determined
Boiling point/range:	-42 - 87 °C (-43.6 - 188.6 °F)
Melting point/ range:	Not available
Specific gravity:	0.6840 (Water = 1)
Vapor density:	Heavier than air
Flash point:	-104 °C (-155.2 °F)
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Slower than diethyl ether.
Solubility in water:	Not applicable
Partition coefficient (n-octanol/water):	Not available
VOC content:	50 % (minus exempt solvents and water).

10. STABILITY AND REACTIVITY

Stability:	Normally stable.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide. Oxides of nitrogen. Hydrogen cyanide. Hydrocarbons.
Incompatible materials:	Strong acids and strong bases. Oxidizing agents. Keep separate from strong oxidizing and strong reducing agents.
Conditions to avoid:	Avoid excessive heat (>46°C (>115°F)) and sources of ignition.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Petroleum gases, liquified, sweetened	No	No	No
Acetone	No	No	No
n-Hexane	No	No	No
Solvent naphtha (petroleum), light aliphatic	No	No	No
Resin acids and Rosin acids, esters with pentaerythritol	No	No	No
Isohexane	No	No	No
Pentane, 3-methyl-	No	No	No
Cyclohexane	No	No	No
Talc	No	No	No

Hazardous components	Health Effects/Target Organs
Petroleum gases, liquified, sweetened	No Records
Acetone	Blood, Central nervous system, Irritant, Reproductive
n-Hexane	Developmental, Irritant, Lung, Nervous System, Reproductive
Solvent naphtha (petroleum), light aliphatic	Irritant
Resin acids and Rosin acids, esters with pentaerythritol	Irritant
Isohexane	Irritant
Pentane, 3-methyl-	Blood, Cardiac, Central nervous system, Irritant, Kidney
Cyclohexane	Irritant, Central nervous system
Talc	Irritant, Lung, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during treatment, storage, or disposal of waste containing this product. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). n-Hexane (CAS# 110-54-3).

California Proposition 65:

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class:

A, B.5, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated composition in Section 3.

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