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Phone: (716) 895-1822

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SECTION 1: IDENTIFICATION

Product identifier used on the label

: **Bonding Cement**

Other means of identification

: **9900193**
Can 4 oz, 16 oz
TT410

Recommended use of the chemical and restrictions on use

: For personal care
Usage Restriction: None known

Chemical family : Mixture

Name, address, and telephone number of the supplier:

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Supplier's Telephone # : (716) 895-1822

24 Hr. Emergency Tel # : 1-800-255-3924

Name, address, and telephone number of the manufacturer:

Refer to supplier.

SECTION 2. HAZARD IDENTIFICATION

Classification of the chemical

Can with an opaque off-white liquid. Smell of solvent.

This product is offered for sale as a safe personal care item for consumers under normal and reasonably foreseeable conditions of use. As such, it is not regulated under the labelling requirements of Hazcom 2012 and WHMIS 2015. For informational purposes, this product would have the following OSHA classification:

Flammable Liquids - Category 2
Serious Eye Damage/Irritation - Category 2A
Reproductive Toxicity – Category 2
Specific target organ toxicity, single exposure - Category 3 (narcotic effects)
Specific target organ toxicity (inhalation) – Category 2 (nervous system)
Aspiration hazard – Category 1

Labelling elements

Hazard pictogram(s)



Signal word

DANGER

Hazard statements

Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.

SAFETY DATA SHEETS

Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause damage to organs (Auditory system, Eyes) through prolonged or repeated exposure if inhaled.

Precautionary Statements

Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke.
Do not breathe dust/gas/mist/vapors.
Wash with plenty of water and soap thoroughly after handling.
Use personal protective equipment as required.
Grounding and equipotential bonding of the container and the receiving equipment.
Use explosion-proof electrical and ventilation equipment.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area. Avoid breathing in smoke, fog or vapors.
Wear protective gloves and eye/face protection.
IN CASE OF CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses if the victim wears them and if they can be easily removed. Continue to rinse. If eye irritation persists, seek medical attention.
IF INHALED: Carry the person outdoors and hold them in a position where they can breathe comfortably. Call a POISON CONTROL CENTRE or a doctor if you feel unwell.
In case of fire: Use water spray, chemical powder, CO2 or alcohol foam for extinguishing. Store in a well-ventilated area. Keep the container closed tightly. Keep under lock and key. Dispose of the contents/container at the disposal site in accordance with local regulations.
IF exposed or concerned: Get medical advice/attention.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.
Collect spillage.
Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

Other Hazards

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Irritating to eyes and skin.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
A component of this product has been shown to be developmentally toxic in animal studies. Use with local exhaust ventilation.
Avoid contact with the skin, eyes and clothing.
Wear a NIOSH-certified (or equivalent) organic vapor respirator. Wear chemical resistant protective gloves.
Wear NIOSH-certified chemical goggles. Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

OSHA/HCS status **:** This material is considered hazardous by OSHA Hazard Communication Standard 29 CFR 1910.120

Potential health effects:

For Component **: Hexane**

IARC No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SAFETY DATA SHEETS

OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3: COMPOSITION/INGREDIENT INFORMATION

Mixture

Chemical Name	Common name and synonyms	CAS RN	Concentration (wt%)
Hexane	n-Hexane	110-54-3	**80.79**

The precise concentrations of the chemicals listed above are not disclosed under trade secrets.

SECTION 4. FIRST AID

Description of First Aid

Ingestion : If ingested, do not introduce vomiting unless directed to do so by medical personnel. Get medical attention.

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin contact : Call physician if irritation develops or persists.

Contact with the eyes : IN CASE OF CONTACT WITH EYES: Rinse carefully with water for several minutes with lukewarm water. Use clean fingers to ensure that the eyelids are separated and that the eye is being irrigated.
If eye irritation persists, seek medical attention.

SECTION 5. FIRE RESPONSE

Appropriate extinguishing media

: Use water, foam or dry chemicals.

Inappropriate extinguishing agents

: Do not use a water jet as a means of extinguishing as this could spread the fire.

Special hazards resulting from the substance or mixture / Flammability conditions

: Flammable liquid and vapor material

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquid - Category 2

Hazardous Combustion Products

: Carbon monoxide, Carbon oxides, aldehydes, organic acids, nitrogen oxides, ammonia, amines.

Special protective equipment and precautions for firefighters

Protective equipment for firefighters

: Firefighters should wear a self-contained breathing apparatus with a full-face element and waterproof clothing.

Special Firefighting Methods

: Cool containers exposed to heat with water spray and remove it, if it is safe to do so.

SAFETY DATA SHEETS

SECTION 6. ACTIONS TO BE TAKEN IN THE EVENT OF AN ACCIDENTAL SPILL

Personal Precautions, Protective Equipment and Emergency Procedures

: Eliminate all sources of ignition (no smoking, no torches, sparks or flames nearby). Wear proper personal protective equipment. If spilled in an enclosed are ventilate.

Precautions for the protection of the environment

: Avoid release to the environment. Do not flush liquid in public sewer, water systems or surface waters. Recover as much as possible and absorb remainder with inert material.

Containment and Cleaning Methods and Equipment

: Wipe with an absorbent material (e.g. fabric, wool). Place into labeled contains and store in safe locations for proper disposal.

Special Spill Response Methods

: Not applicable.

SECTION 7. HANDLING AND STORAGE

Handling safety precautions

: Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition.
Do not smoke. Do not swallow or ingest.
Follow good industrial hygiene practices.
Avoid eye contact, repeated or prolonged skin contact if inhalation of aerosol, mist or vapors.
Use in well-ventilated areas.

Conditions for safe storage

: Keep containers closed when not in use.
Do not store in open, unlabeled or mislabeled containers. Product is not reactive or degraded by moisture, however, protect from moisture contamination for performance purposes.

Storage Temperature

: Minimum 5°C
Maximum 40°C

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits:				
Chemical Name	**ACGIH TLV**		**OSHA PEL**	
	TWA	**STEL**	**PEL**	**STEL**
Hexane	**50 ppm**	**N/E**	**50 ppm**	**500 ppm**

Exposure controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Respiratory protection : Use a properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and safe working limits of the known respirator.

Skin protection : None required under normal conditions

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SAFETY DATA SHEETS

Eye/face protection

: None required under normal conditions.

Other protective equipment

: Wash hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

General hygiene considerations

: Always observe good personal hygiene practices such as washing after handling the material and before eating, drinking and/or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid, paste

Smell : Hydrocarbon-like

Olfactory : Not available.

threshold : Not available.

pH

Melting Point/Freezing Point

: Not available.

Initial boiling point and boiling range

: 62.78°C (145°F)

Flash Point : -22°C (-7.0°F)

Flash Point Method : Closed cup

Evaporation rate (n-butyl acetate = 1)

: Slower than ether

Flammability (solid, gas) : Flammable liquid material

Lower flammability limit (% vol.)

: Not available

Upper flammability limit (% vol.)

: Not available.

Oxidizing properties

: Not available.

: None.

Explosive properties : Non-explosive

Vapor pressure : 153 mmHg

Vapor density : Not available

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Relative Density / Specific Weight
: 6.38 @ 20°C

Solubility in water : Not available

Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water / Water/oil distribution coefficient
: Not available.

Auto-ignition temperature
: Not available.

Decomposition Temperature
: Not available.

Viscosity : Not available.

Volatile matter (wt%)
: 83.0%

Volatile Organic Compounds (VOCs)
: 607.52 g/L

Absolute Container Pressure
: Not available.

Flame projection distance
: Not available.

Other physical/chemical observations
: None known or reported by the manufacturer.

SECTION 10. STABILITY AND RESPONSIVENESS

Reactivity : This product is stable and non-reactive under normal conditions of use, storage and transportation.

Chemical stability : The product is stable under normal use.

Possibility of hazardous reactions
: Hazardous polymerization does not occur.

Conditions to avoid : Keep away from heat, sparks, and open flames.

Incompatible materials : Strong oxidizing agents, excessive heat.

Hazardous decomposition products
: Decomposition of the dry solids may generate irritating vapors, Co2, CO (see section 5.).

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SECTION 11. TOXICOLOGICAL DATA

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eyes : YES

Routes of entry ingestion : YES

Routes of exposure skin absorption
: NO

Potential Health Effects:

Short-term (acute) exposure symptoms

Signs and symptoms inhalation
: None intended, when used as intended.

Signs and symptoms ingestion
: None intended, when used as intended.

Signs and symptoms Skin
: None planned, when used as intended.

Signs and symptoms eyes
: None intended, when used as intended. Direct contact with the eyes may cause irritation. Symptoms may include watery eyes, redness, and discomfort.

Risk of chronic health effects : None intended, when used as intended.

Mutagenicity : Is not intended to be mutagenic.

Carcinogenicity : This product is not considered carcinogenic by IARC, ACGIH, NTP, or OSHA.

Reproductive Effects & Teratogenicity
: This product is not suspected of causing reproductive or developmental effects.

Sensitization to material : Is not intended to be a respiratory or skin sensitizer.

Specific target organ effects : None intended, when used as intended.

Medical conditions aggravated by overexposure
: None reported by the manufacturer.

Synergistic substances : None reported by the manufacturer.

Toxicological data : See data below for acute toxicity.

Chemical Name	LC50(4hr) inh, rat	LD50 (Oral, rat)	LD50 (skin, rabbit)
Hexane	31.86 mg/L (vapor)	16,000 mg/kg	2,000 mg/kg

SAFETY DATA SHEETS

Other Important Toxicological Hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL DATA

Ecotoxicity : The product has not been classified as hazardous to the environment. Avoid release to the environment.

Ecotoxicity data:

Ingredients	CAS RN	Toxicity to fish		
		LC50 / 96h	NOEC / 28 day	M-factor
Hexane	110-54-3	2.5 mg/L (pimephales promelas)	2.8 mg/L	None.

Ingredients	CAS RN	Toxicity to daphnias		
		EC50 / 48h	NOEC / 21 days	M-factor
Hexane	110-54-3	2.1-3.8 (daphnia magna)	4.888 mg/L	None.

Ingredients	CAS RN	Toxicity to algae		
		EC50 / 48h – 96h	NOEC / 48h	M-factor
Hexane	110-54-3	8.1-10 mg/L	2.08 mg/L	None.

Persistence and degradability

: Not available.

Potential for bioaccumulation

: Not available.

Ingredients	Partition coefficient: n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Hexane	3.90 – 4.11	501 L/kg

Mobility in the ground : Not available.

Miscellaneous Adverse Effects on the Environment

: None known or reported by the manufacturer.

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SECTION 13. DISPOSAL DATA

Handling for disposal

: Dispose of the product in accordance with federal, state, and local regulations.

Methods of disposal : Dispose of the product in accordance with federal, state, and local regulations.

RCRA (Resource Conservation and Recovery Act)

: Not applicable.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN Shipping Name	Transport hazard class(es)	Packing Group	Label
The United States (DOT)	1133	Adhesive with flammable liquid	III	II	Environmental pollutant
The United States (DOT) Additional Information	For UN 1133 shipments utilizing specific Intermediate Bulk Containers (IBCs like 31A or 31H1), regulations strictly mandate that you only transport liquids with a vapor pressure less than or equal to 110 kPa at 50°C. Under DOT regulations, pure hexane has a statutory Reportable Quantity of 5,000 lbs. If the net mass of hexane in your adhesive shipment exceeds this limit, the letters **"RQ"** must precede the proper shipping name on shipping papers and package markings. You can utilize DOT **Limited Quantity** Exceptions under 49 CFR 173.150 if inner packaging do not exceed **1.0 Liter (0.3 gallons)** for Packing Group II.				
ICAO/IATA	1133	Adhesive with flammable liquid	III	II	Environmental pollutant
ICAO/IATA Additional Information	Standard shipments must comply with **Packing Instruction 353** (Passenger Aircraft) or **Packing Instruction 364** (Cargo Aircraft Only). For UN 1133 (PG II), passenger aircraft restrict the max net quantity per package to **5 Liters**, whereas Cargo Aircraft Only (CAO) allow up to **60 Liters**. Packages exceeding 5 Liters must bear the prominent **"Cargo Aircraft Only"** handling label. Inner packaging (metal or plastic) must be capable of withstanding an internal gauge pressure differential of not less than 95 kPa (or 75 kPa for PG III) without leaking, simulating high-altitude pressure drops.				
IMDG	1133	Adhesive with flammable liquid	III	II	Marine Pollutant
IMDG Additional Information	Hexane vapors are heavier than air and highly explosive. Under the IMDG Code, UN 1133 is assigned to **Stowage Category B**. It must be stowed "away from" sources of heat, and if shipped in large quantities, it is ideally kept "on deck" rather than "under deck" to facilitate mechanical ventilation. Hexane is highly incompatible with Class 5.1 oxidizing substances (e.g., liquid chlorine, chlorates, peroxides). You must ensure strict cargo segregation compliance inside the freight container.				

Special precautions to be taken by the user

: Adequate precautionary statements must accompany the packaging.

Environmental hazards

: Must state that n-hexane is toxic to aquatic life with long-lasting effects (typically GHS Category Chronic 2, statement H411).

Bulk transport in accordance with Annex II of the MARPOL 73/78 Convention and the IBC Code

: Not established.

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SAFETY DATA SHEETS

SECTION 15. REGULATORY INFORMATION

U.S. Federal Intelligence:

The ingredients listed below are present on the following U.S. federal chemical lists

Ingredients	No CAS	TSCA Inventory	CERCLA Reportable Quantity (RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic chemical	de minimis concentration
Hexane	110-54-3	Yes	Yes (RQ = 5,000 lbs)	None.	Yes	1%

SARA TITLE III: Sec. 313 Toxic Chemicals Notification, 40 CFR 372: Flammable Solid Eye Irritation Specific Target Organ Toxicity - Single Exposure.

U.S. Laws "State Right to Know":

The following chemicals are listed by each of these states:

Ingredients	CAS RN	California Proposition 65		Right to Know Status List					
		Registered	Type of toxicity	CA	MA	MN	NJ	PA	IR
Hexane	110-54-3	Yes	Reproductive	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

All Ingredients of this product are on the Canadian LIS list. WHMIS classification: See Section 2.

International Intelligence:

The ingredients listed below are present on the following international inventory list:

Ingredients	CAS RN	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Hexane	110-54-3	203-777-6	Present	Present	(2)-6	KE-18626	Present	HSR001166

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SAFETY DATA SHEETS

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CSA: Canadian Standards Association
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods Code Inh: Inhalation
CL: Lethal Concentration /DL: Lethal Dose
N/A: Not applicable /P/D: Not available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NOEC: No-observed-effect concentration
NTP: National Toxicology Program
OECD: Organization for Economic Co-operation and Development
OEL: National Occupational Exposure Limits
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
SARA: Superfund Amendments & Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time-Weighted Average
WHMIS: Workplace Materials Information System

References : 1. ACGIH, Cut-Off Value for Chemicals and
2. Physical Agents and Biological Exposure
3. ECHA - European Chemical Agency
4. Canadian Centre for Occupational Health and Safety, CCInfoWeb database
5. Manufacturer's Safety Data Sheets.
6. US EPA Title III List of Lists
7. California Proposition 65 List
8. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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No. revision : 1

Revision Information : Initial/New

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