

Revision Date: 04/11/2007

Issue date: 04/11/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: SYNCORE 9823.1 SHAPE Product type: Adhesive for the Aerospace Industry Company address: Henkel Corporation 2850 Willow Pass Road Bay Point, California 94565	Item No. : CP3020402 / IDH No. 622458 Region: United States Contact Information: Telephone: 925.458.8000 Fax : 925.458.8030. Emergency Telephone: 860.571.5100. Internet www.aerospace.henkel.us
--	--

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Epoxy resin Proprietary	10-30	None	None	None
Glass spheres Proprietary	10-30	1 fiber/cm ³ TWA respirable fibers: length > 5 µm, aspect ratio equal to or greater than 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination. 5 mg/m ³ TWA inhalable fraction	0.1 mg/m ³ TWA	None
Epoxy resin Proprietary	10-30	None	None	None
Epoxy resin Proprietary	10-30	None	None	None
Epoxy resin Proprietary	10-30	None	None	None
Guanidine derivative Proprietary	1-5	None	None	None
Amine Proprietary	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Solid Color: Black Odor: Slight WARNING: MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION.	HMIS: HEALTH: 2* FLAMMABILITY: 1 PHYSICAL HAZARD: 1 Personal Protection: See Section 8
---	---

Relevant routes of exposure: Skin

Item No. : CP3020402 / IDH No. 622458

Product name: SYNCORE 9823.1 SHAPE

Potential Health Effects

Inhalation:	May cause respiratory tract irritation.
Skin contact:	May cause skin irritation with discomfort or rash. Repeated or prolonged skin contact may result in allergic sensitization.
Eye contact:	Contact with eyes will cause irritation.
Ingestion:	Not expected under normal conditions of use.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
Skin contact:	Wash with soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion:	Drink water as a precaution. Get medical attention if symptoms develop and persist.

5. FIRE-FIGHTING MEASURES

Flash point:	Not applicable Product is a solid. (estimated)
Autoignition temperature:	Not determined
Flammable/Explosive limits-lower %:	Not determined
Flammable/Explosive limits-upper %:	Not tested
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Cartridge respirators do not provide adequate protection for fire fighters or exotherm mitigation.
Unusual fire or explosion hazards:	May liberate large quantities of dense, foul-smelling smoke which may contain unidentified toxic gasses.
Hazardous combustion products:	Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	No information available
Clean-up methods:	Scrape up as much material as possible. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Keep cool in accordance with information on label and in Technical Data Sheets.
Storage:	For safe storage, store at or below -18°C (0°F).
Incompatible products:	Keep away from strong oxidizing agents, strong Lewis or mineral acids.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
------------------------------	--

Respiratory protection: When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Eye/face protection: Wear appropriate goggles, face shields or other PPE which will be effective under the circumstances if the possibility of contact exists. A program meeting 29 CFR 1910.133 requirements must be followed when PPE is necessary.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid
Color: Black
Odor: Slight
Vapor pressure: Nil
pH: Not available
Boiling point/range: Undefined
Melting point/range: Not available
Specific gravity: .71
Vapor density: Greater than 1
Evaporation rate: Not available
Solubility in water: Negligible.
Partition coefficient (n-octanol/water): Not available
VOC content: <10 g/l (estimate) per SCAQMD Rule 1124 [EPA Test Method 24/304-91]

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: May occur.

Hazardous decomposition products: Oxides of carbon and nitrogen, aldehydes, acids and undetermined organics.

Incompatibility: Keep away from strong oxidizing agents, strong Lewis or mineral acids.

Conditions to avoid: Avoid heating masses of film greater than 1 pound (.454 kg) total. Avoid heating unless curing surfaces to be bonded. Failure to observe these precautions may result in excessive heat build-up causing an exotherm. The exotherm has the potential for release of toxic gasses.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epoxy resin Proprietary	No	No	No
Glass spheres Proprietary	Suspect Carcinogen	Group 2B	Yes
Epoxy resin Proprietary	No	No	No
Epoxy resin Proprietary	No	No	No
Epoxy resin Proprietary	No	No	No
Guanidine derivative Proprietary	No	No	No
Amine Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epoxy resin Proprietary	Allergen, Irritant
Glass spheres Proprietary	Allergen, Respiratory
Epoxy resin Proprietary	Allergen, Irritant
Epoxy resin Proprietary	Allergen, Irritant
Epoxy resin Proprietary	Allergen, Central nervous system, Irritant, Respiratory, Liver
Guanidine derivative Proprietary	Allergen, Central nervous system, Eyes, Irritant
Amine Proprietary	Irritant

12. ECOLOGICAL INFORMATION

Ecological information: No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Postal System: This material is allowed to be sent through the U.S. Postal system.

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

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not restricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: 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.
CERCLA/SARA Section 302 EHS:	None.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313:	None above reporting de minimus.
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	D.2.B, If the cured material is to be dry sanded, ground, or abraded, then the material becomes a D2A.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: C.J. Michaels, Manager, Regulatory Affairs
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
Rocky Hill, CT.
860-571-5204

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.