SAFETY DATA SHEET according to Regulation (EC) No. 830/2015

Brazing Paste



Date Issued : 04/13/2015 SDS No : STL-1267E-XXX_EU_SDS Date Revised : 09/23/2021 Revision No : 8

STL-1267EY-XXZ

SECTION 1 : Identification of the su	bstance/preparation and of the company/undertaking
1.1. Product identifier	
Product name	: STL-1267EY-XXZ
Product description	: See Additional Information for explanation of Product Name.
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Relevant identified uses	: Product Type: A braze paste consisting of powdered filler metal and flux suspended in a binder and used for joining metals by heating the parts to be joined and this product to or above the melting temperature of the filler metal.
1.3. Details of the supplier of the sat	fety data sheet
Manufacturer Fusion Incorporated UK, LTD Barrows Road, The Pinnacles	
HARLOW, ESSEX CM19 5FD UNIT	ED KINGDOM
Emergency Contact Service Number E-Mail	: Safety Officer +44 (0)1279 443122 : +44 (0)1279 443122 : MSDS@fusion-inc.com
1.4. Emergency telephone number	

In case of:	Contact:	Phone Number:
Chemical Emergency	Verisk 3E	
(spill, leak, fire, exposure or	(Access Code 335582):	
accident)	US-	+1 760 476 3962
	Mexico-	+52 55 41696225
	EU-	+1 760 476 3961
	UK-	0 800 680 0425
	Asia Pacific-	+1 760 476 3960
	Korea Specific-	+080-880-0455
Company Contact Information	Fusion Incorporated	440 946 3300
		(8AM - 5PM EST)
	Fusion Incorporated LTD, UK	+44 (0)1279 443122
		(8AM - 5PM BST)

Additional information

: Product Identification:

This SDS is applicable to all pastes with product codes conforming to the following system: First segment [binder] - second segment [alloy] - third segment [% metal code] See *example* below:

ABC-9999Y-XXZ

(1) - (2) - (3)

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(1) The first segment [the binder code] consists of three letters or a number and two letters.

(2) The middle segment [the alloy code] may appear in basic form [no suffix letter], or with one of several suffix letters.

[Special note: some alloys may also have a prefix letter.]

(3) The last segment consists of 3 characters: the first 2 digits denote the %metal of the paste, the last character will be a letter or numeral.

SECTION 2: Hazards identificati	on	
2.1. Classification of the substan	nce or mixture	
Classification according to Regu	ulation (EC) No 1272/2008 [CLP]	
Health	: Acute Toxicity (Oral), Category 4 Skin Irritation, Category 2 Eye Corrosion, Category 1 Reproductive Toxicity, Category 2	
Environmental	: Acute Hazards to the Aquatic Environment, Category 1 Chronic Hazards to the Aquatic Environment, Category 1	
2.2. Label elements		
Classification according to Regu	Ilation (EC) No 1272/2008 [CLP]	
Hazard pictogram(s)	: Corrosion Exclamation Health hazard Environment	
Signal Word	: DANGER	
Hazard statement(s)	: H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H361: Suspected of damaging fertility or the unborn child. H410: Very toxic to aquatic life with long lasting effects.	
Precautionary statement(s)		
General	 P201: Obtain special instructions before use. P310: Immediately call a POISON CENTER or doctor. P280: Wear protective gloves, clothing, eye protection and face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P391: Collect spillage. P273: Avoid release to the environment. P501: Dispose of container in accordance with local, regional and national regulations. 	
Prevention	: P202: Do not handle until all safety precautions have been read and understood. P264: Wash exposed skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product.	
Response	: P302+P352: IF ON SKIN: Wash with plenty of soap and water. P362+P364: Take off contaminated clothing and wash it before reuse. P330: Rinse mouth.	
Storage	: P405: Store locked up.	
2.3. Other hazards		
None Expected.		
SECTION 3: Composition / infor	mation on ingredients	
3.1. Substances		

Not Applicable

3.2. Mixtures

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		EINECS No.		Classification according to Regulation (EC) No 1272/2008 [CLP]	
Chemical Name	CAS	REACH Registration No.	Wt.%		
Boric Acid (H2B4O7), dipotassium salt,	0007 50 4	273-499-8	<35	Skin Corr.,Cat. 1C; Eye Corr.,Cat. 1; Acute Tox.	
reaction products with boron and potassium fluoride (K(HF2))	68987-56-4	01-2120817176-56-0000		(O),Cat. 4; Rep. Tox.,Cat. 2; H314; H318; H302; H361-1	
Silver	7440-22-4	231-131-3	15 - 76	Aquatic Acute,Cat. 1; Aquatic Chronic,Cat.	
		Not Applicable		1M10; H400; H410	
Coppor	7440-50-8	231-159-6	5 - 45	Aquatic Acute,Cat. 1; Aquatic Chronic,Cat. 2;	
Copper	7440-50-6	01-2119480154-42-0172	5 - 45	H400; H411	
Zinc	7440.00.0	231-175-3	0 - 35	Aquatic Acute,Cat. 1; Aquatic Chronic,Cat. 1; H410	
Zinc	7440-66-6	Not Applicable	0-35		
Tin	7440-31-5	231-141-8	0 - 25	Not classified	
	7440-31-3	01-2119486474-28-0053			

Additional information

: This material does not contain any other substances which are considered hazardous and are included above the appropriate reportable limits.

Note: This SDS is prepared to cover multiple alloys with the same GHS Hazard Classification and may list substances not applicable to the named product. Please see the Specification Sheet for product specific alloy composition and melt point range.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
Following eyes	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.
Following skin	: Immediately remove contaminated clothing. Do not attempt to remove any material bonded to the skin. Flush area of skin contact immediately with large amounts of water for at least 15 minutes. If irritation persists after flushing, get medical attention promptly. Launder contaminated clothing before reuse.
Following ingestion	: If swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Following inhalation	: Remove victim to fresh air. If not breathing, trained personnel may give artificial respiration. If breathing is difficult, give oxygen by trained personnel. Seek medical attention.
4.2. Most important symptoms an	d effects, both acute and delayed
Eyes	: Eye contact may cause: irritation and/or burning sensation.
Skin	: May cause irritation and burns to exposed tissue. Hot molten metal may cause burns to the skin.
Ingestion	: If swallowed, this product may cause gastrointestinal discomfort, nausea, vomiting.
Inhalation	: Inhalation of powder, dust or fumes may be irritating to the respiratory system. Inhalation of some metals may cause Metal Fume Fever: See section 11.
4.3. Indication of any immediate m	nedical attention and special treatment needed
Notes to physician	 Treat symptomatically. Fluorides can reduce serum calcium levels resulting in potentially fatal hypocalcemia. Focus medical efforts on combating shock and reducing systemic toxicity of fluoride ion.
SECTION 5: Fire fighting measure	es
5.1. Extinguishing media	
Extinguishing media	: For fires involving this product, use dry chemical, carbon dioxide, foam, water spray. Do not use water if metal is molten.

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General hazard	: During the soldering/brazing process, hazardous decomposition products may be released: See section 10.	
Explosion hazards	: This material is classed as a non-flammible solid. Product will burn under fire conditions. Emits toxic and corrosive fumes under fire conditions.	
5.3. Advice for firefighters		
Fire fighting procedures	: Move container from fire area if it can be done without risk. Avoid inhalation of vapors or mists.	
Fire fighting equipment	: Exposure to decomposition products may be a hazard to health. Do not breathe smoke, gases or vapors generated. Wear goggles if eye protection is not provided. Wash away any material that comes into contact with the body, clothing or equipment. When fighting fires involving this product, wear full protective gear. For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.	
SECTION 6: Accidental release measure	ures	
6.1. Personal precautions, protective	equipment and emergency procedures	
General procedures	: Waste disposal method: Scoop up excess material and wash affected areas with soap and water. Avoid contact with skin and eyes. Collect material into sealed and labeled containers for disposal. Clean contaminated surface thoroughly. Dispose in accordance with federal, state and local regulations.	
Special protective equipment	: Avoid inhaling vapor and/or mists. Do not get spilled material on skin, clothing, or in eyes. Wear full protective clothing. See Section 8. Remove all contaminated clothing.	
6.2. Environmental precautions		
Water spill	: Avoid contamination of water bodies during cleanup and disposal. Do not flush to sewer. Advise relevant authorities if material enters sewers, water sources or low-lying areas.	
Land spill	: No data available	
Air spill	: No data available	
6.3. Methods and material for contain	ment and cleaning up	
Large spill	: Recover spilled material. Reclaim this material whenever possible. Collect material into sealed and labeled containers for reclamation or disposal.	
6.4. Reference to other sections		
Reference to other sections	: See Section 8 for Personal Protective Equipment	
	See Section 13 for Product Disposal considerations	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Handling	: Keep away from sources of ignition.	
Storage	: Keep lid tightly closed except when removing product.	
7.2. Conditions for safe storage, inclu	ding any incompatibilities	
Storage temperature	: 5°C Minimum to 25°C Maximum	
Shelf life	: See specification sheet or container label.	
7.3. Specific end use(s)		
Specific end use(s)	: Solder or Braze Paste for joining metals.	
SECTION 8: Exposure controls / pers	onal protection	
8.1 Control parameters		

8.1. Control parameters

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Chemical Name: Silver

Country	Туре	ppm	mg/m³	Comments
Cuvitzerden d	MAK-Wert		0.1	
Switzerland	KZGW		0.8	
Chemical Name: Copper				
Country	Туре	ppm	mg/m ³	Comments
Curitzenden d	MAK-Wert		0.1	
Switzerland	KZGW		0.2	
Chemical Name: Zinc				
Country	Туре	ppm	mg/m ³	Comments
Germany	DFG		0.1	[respirable fraction]
Switzerland	MAK-Wert		0.1	[respirable fraction]

: The use of local ventilation is required to maintain the concentration of fumes evolved from the
soldering/brazing process to well below the occupational exposure limits, within the operator's breathing zone and the general vicinity. Use of process enclosures, exhaust systems, and other engineering/administrative controls should be designed in accordance with local conditions. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> [most recent edition], for details.
: Wear safety glasses with side shields as a minimum level of protection. Consult ANSI Z87.1 for more information.
: Wear chemical resistant gloves. When material is heated, wear thermal-insulated gloves to protect against burns.
: When exposure limits (listed above) are exceeded or ventilation is inadequate, wear a NIOSH or European Standard approved respirator, in accordance with OSHA respirator regulations [29 CFR 1910.134] or European Standards [EN149]. Consult ANSI Z88.2 <i>American National</i> <i>Standard for Respiratory Protection</i> for guidance on proper selection, use and care of respirators.
: Avoid skin contact. Wear chemical resistant clothing (long-sleeved shirt buttoned at the wrist) as necessary to prevent contact. For soldering/brazing operations where hot metallic parts are handled and molten metal may be present, wear heat-resistant gloves and clothing to protect from burns.
: Minimize exposure in accordance with good hygiene practice. Good general hygienic practices include: Eating, drinking, and smoking should not be permitted in work areas. Wash thoroughly after handling, and before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Keep area clean. Remove contaminated clothing promptly. Launder contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing. Avoid breathing dust, vapor or mist.
: Educate and train employees in the safe use and handling of this product.
: See American National Standard ANSI Z49.1, <i>Safety in Welding, Cutting and Allied Processes</i> , published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126; OSHA <i>Safety and Health Standards</i> , 29 CFR 1910, available from the U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.

SECTION 9: Physical and chemical properties

9.1. Information on basic ph	ysical and chemical properties
Appearance	: Viscous paste
Colour	: Various
Odour	: Characteristic odor.
рН	: Not Applicable
Melting point	: Alloy Melting Range: > 538°C (1000°F) (See Spec. Sheet for specific alloy melt point)
Boiling point	: Not Determined

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Flash point	: Not Applicable
Evaporation rate	: No data available
Explosion limits	: LEL/UEL: Not Determined
Vapor pressure	: No data available
Vapor density	: No data available
Specific gravity	: > 2 (water=1)
Solubility in water	: Negligible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not Determined
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
Additional information	: Not Available
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	: This material is not expected to be reactive at ambient conditions.
10.2. Chemical stability	
Chemical stability	: Stable under normal conditions of use.
10.3. Possibility of hazardous reactions	
Hazardous polymerization	: Will not occur.
10.4. Conditions to avoid	
Conditions to avoid	: Avoid contact with incompatible materials. Avoid extreme heat. Avoid prolonged exposure to air and moisture.
10.5. Incompatible materials	
Incompatible materials	: Materials to avoid: strong reducing agents such as metal hydrides or alkali metals (Reaction with these materials may generate hydrogen gas, which could create an explosive hazard), acids, alkalies, oxidizing agents, strong oxidizers, acetylene, ammonia, hydrogen peroxide, bromine azide, chlorine trifluoride, ethyleneimine, oxalic acid, tartaric acid, nitric acid, sulfuric acid, bromates, strong bases, magnesium, chlorates, iodates, sodium azide, halogens, halogenated hydrocarbons, moisture, strong oxidizing agents, sulfur compounds.
10.6. Hazardous decomposition products	
Hazardous decomposition products	: Decomposition products may include, but are not limited to: carbon oxides (CO, CO ₂), smoke & fumes, hydrogen fluoride. Metallic decomposition products may include: metal oxide fumes, copper fume, zinc oxide fumes, tin oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute

Chemical Name		Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Boric Acid (H2B4O7), dipotassium salt, reaction products with boron and potassium fluoride (K(HF2))		500 ATE (Acute Toxicity Estimate)	Not established	Not established
Dermal LD ₅₀	: Not Classified. The calculation method was use	d for this evaluation.		
Oral LD ₅₀	: Classified as Acute Toxicity (Ora The calculation method was use	,, 0,		
Inhalation LC_{50}	: Not Classified. The calculation method was use	d for this evaluation.		
Notes	: If excessive quantities of copper fume or zinc oxide fume are inhaled, it can result in the condition called metal fume fever. The symptoms of metal fume fever will occur within 3 to 10 hours, and include immediate dryness and irritation of the throat, tightness of the chest, and			

	coughing which may later be followed by flu-like symptoms of fever, malaise, perspiration, frontal headache, muscle cramps, low back pain, occasionally blurred vision, nausea, and vomiting. There are no recognized complications, after effects, or chronic effects that result from this condition.		
Skin corrosion/irritation	: Classified as Skin irritation, Category 2 The classification is based on testing this material or a similar material.		
Serious eye damage/irritation	: Classified as Eye Corrosion, Category 1. The calculation method was used for this evaluation.		
Respiratory or skin sensitisation	: Not Classified. This material was not made with any components known to be skin or respiratory sensitizers.		
Germ cell mutagenicity	: Not Classified. This material was not made with components identified as being mutagenic.		
Carcinogenicity	: Not Classified. This product was not formulated with any ingredients that are classified as carcinogenic by IARC, NTP, ACGIH, OSHA or the UK HSC.		
Reproductive toxicity	: Classified as Reproductive toxicity Category 2 The calculation method was used for this evaluation.		
STOT-single exposure	: Not Classified. The calculation method was used for this evaluation.		
STOT-repeated exposure	: Not Classified. The calculation method was used for this evaluation.		
Aspiration Hazard	: Not Applicable		
11.2. Information on other hazards			
Information on other hazards	: None Expected.		
SECTION 12: Ecological information			
12.1. Toxicity			
Toxicity	: Material - Expected to be toxic to aquatic organisms. Material - Expected to be toxic with long-tem adverse effects in the aquatic environment.		
Aquatic toxicity (acute)	: No data available		
12.2. Persistence and degradability			
Persistence and degradability	: No data available		
12.3. Bioaccumulative potential			
Bioaccumulative potential	: No data available		
12.4. Mobility in soil			
Mobility in soil	: No data available		
12.5. Results of PBT and vPvB assessment			
Results of PBT and vPvB assessment	: No data available		
12.6. Endocrine disrupting properties			
Endocrine disrupting properties	: No data available		
12.7. Other adverse effects General comments	: No data available		
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product disposal	: Disposal of waste material from the use of this product may be subject to federal, state and local regulations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator. Reclaimed scrap metal has monetary value. Contact a commercial reclaimer for information on recycling scrap metals. All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.		
Disposal method	: Dispose of in accordance with EC, national and local regulations, or sell to refiner.		
	: Dispose of in accordance with EC, national and local regulations, or sell to refiner.		

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Waste codes

waste codes	
SECTION 14: Transport information	
14.1. UN number or ID number	
UN number	: 3077
14.2. UN proper shipping name	
UN proper shipping name	: Environmentally hazardous substances, solid, n.o.s. [Copper, Silver]
14.3. Transport hazard class(es)	
Primary hazard class/division	: 9 Environmentally Hazardous Substance
14.4. Packing group	
Packing group	: 111
14.5. Environmental hazards	
Marine pollutant #1	: Copper metal powder
Marine pollutant #2	: Silver metal powder
14.6. Special precautions for user	
IMDG - sea	: Marine Pollutants having a net quantity of 5 L or less for liquids or a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of the Code relevant to marine pollutants.
IATA - air	: A197: May be shipped as "Not restricted" provided that the net quantity in any receptacle does not exceed 5 kg or 5 L.
14.7. Maritime transport in bulk according	
Transport in bulk	: No further instructions, see above.
Additional information	: This product is classified for transport per US DOT, ADR/RID, ICAO/IATA, and IMO/IMDG.
SECTION 15: Regulatory information	
	ulations/legislation specific for the substance or mixture
RoHS	: This product was not made with any components regulated under the RoHS Directive 2011/65/EU.
International regulations	: <u>European Union:</u> This safety datasheet complies with the requirements of Regulations (EC) No. 1907/2006 and No. 1272/2008.
15.2. Chemical safety assessment	
Chemical safety assessment	: A Chemical Safety Assessment has not been completed for this material.
SECTION 16: Other information	
Relevant H-statements (number and full text)	: Acute Tox. (O), Cat. 4: Acute Toxicity (Oral), Category 4 Aquatic Acute, Cat. 1: Acute Hazards to the Aquatic Environment, Category 1 Aquatic Chronic, Cat. 1M10: Chronic Hazards to the Aquatic Environment, Category 1, M=10 Aquatic Chronic, Cat. 1: Chronic Hazards to the Aquatic Environment, Category 1 Aquatic Chronic, Cat. 2: Chronic Hazards to the Aquatic Environment, Category 2 Eye Corr., Cat. 1: Eye Corrosion, Category 1 Rep. Tox., Cat. 2: Reproductive Toxicity, Category 2 Skin Corr., Cat. 1C: Skin Corrosion, Category 1C H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H361-1: Suspected of damaging fertility or the unborn child. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.
Approved by	: Regulatory Affairs
Prepared by	: Katherine Spencer
Information contact	: Regulatory Affairs
Revision summary	: This SDS replaces the 04/14/2021 SDS. Revised: Section 3: COMMENTS. Section 9:

Manufacturer disclaimer

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