

SAFETY DATA SHEET

Conforms with OSHA Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012



Product: Regular Silver Solder (017-45530, 017-45540)

Revision Date: 09/26/2016

SECTION 1 - IDENTIFICATION

Product Identifier

Product Name: Regular Silver Solder

Product Code: 017-45530, 017-45540

Recommended Use of the Chemical and Restrictions on Use

Recommended Use: A multi-purpose solder for use in dentistry.

Restrictions on Use: For Dental Professional Use only. Use only as directed.

Details of the Supplier

Manufactured for: Integra York PA, Inc.
589 Davies Dr.
York, PA 17402 USA
1-866-854-8300

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard Class	Category
Acute Toxicity - Oral	4
Acute Toxicity – Inhalation (Gases)	3
Acute Toxicity – Inhalation (Dusts/Mists)	4
Skin Corrosion/Irritation	1B
Serious Eye Damage/Eye Irritation	1
Reproductive Toxicity	1A

Label Elements

Hazard Symbols(s):



Signal Word(s): DANGER

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Hazard Statement(s):

- Harmful if swallowed.
- Causes severe skin burns.
- Causes serious eye damage.
- Toxic if inhaled.
- May damage fertility or the unborn child.

Precautionary Statements:

Prevention

- Obtain special instructions before use.
- Do not breathe dust or mists.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wash hands thoroughly after handling.

Response

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- Call a POISON CENTER or doctor if you feel unwell.

Storage

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Disposal

- Dispose of contents/container in accordance with all applicable local, state and federal regulations.

Other Hazards

No other information available.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Potassium Tetraborate Tetrahydrate	12045-78-2	10-25
Potassium Silicofluoride	16871-90-2	10-25
Potassium Hydrogen Fluoride	7789-29-9	2.5-10

SECTION 4 – FIRST AID MEASURES

First aid measures

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Eye contact	Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. Regardless of the initial state, refer the patient to an ophthalmologist and show him the label. If there is any redness, pain or visual impairment, consult an ophthalmologist.
Skin Contact	Remove any soiled or splashed clothing immediately. Watch out for any remaining product between skin and clothing, watches, shoes, etc. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
Inhalation	In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest. If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary. If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor. Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.
Ingestion	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor. Seek medical attention immediately, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

Most important symptoms and effects, both acute and delayed

Symptoms Not available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Carbon dioxide (CO₂). Powder.

Unsuitable: In event of a fire, do not use water jet.

Specific Hazards Arising from Chemical

A fire will often produce a thick black smoke.
Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke. In the event of a fire, the following may be formed:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Metallic oxide smokes

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Explosion data

Sensitivity to Mechanical Impact: None known.

Sensitivity to Static Discharge: None known.

Protective Equipment and Precautions for Firefighters

Wear NIOSH Approved Self-Contained Breathing Apparatus for fire-fighting if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Consult the safety measures listed under headings 7 and 8.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods and Material for Containment and Cleaning Up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Retrieve the product by mechanical means (sweeping/vacuuming).

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Advice on safe handling: Always wash hands after handling. Remove and wash contaminated clothing before re-using. Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep container tightly closed in a dry, well-ventilated place. Keep away from food and drink, including those for animals.

Packaging Materials: Always keep in packaging made of identical material to the original.

Incompatible Materials: None known based on information supplied.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Guidelines: This product, as supplied, contains the following hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Tetraborate Tetrahydrate 12045-78-2	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³	-	-

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	inhalable fraction		
Potassium Silicofluoride 16871-90-2	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 2.5 mg/m ³	-
Potassium Hydrogen Fluoride 7789-29-9	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 2.5 mg/m ³	-

Individual Protection Measures, such as personal protective equipment

Eye/Face Protection: Avoid contact with eyes. Before handling powders or dust emission, wear mask goggles which are NIOSH approved. Prescription glasses are not considered as protection. Provide eyewash stations in facilities where the product is handled constantly.

Skin and Body Protection: Avoid skin contact. Use suitable protective gloves that are resistant to chemical agents. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties: - Impervious gloves. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

Respiratory Protection: Avoid breathing dust. If the ventilation is insufficient, wear appropriate breathing apparatus. When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device. Type of FFP mask: Wear a disposable half-mask dust filter.

General Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver solid

Odor: Not available

Odor threshold: Not available

pH: Not available

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flash point: Not available

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Evaporation rate: Not available

Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits: Not available

Vapor pressure: Not available

Vapor density: Not available

Specific Gravity: Not available

Solubility(ies): Insoluble in water

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: 630-680°C.

Decomposition temperature: Not available

Kinematic Viscosity: Not available

Dynamic Viscosity: Not available

Explosive Properties: Not available

Oxidizing Properties: Not available

Softening Point: Not available

Molecular Weight: Not available

VOC Content (%): Not available

Density: Not available

Bulk Density: Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not available

Chemical stability: The mixture is stable under the recommended handling and storage conditions in section 7.

Possibility of hazardous reactions: Not available

Conditions to avoid: Formation of dusts. Dust can form an explosive mixture in air.

Incompatible materials: None known based on information supplied.

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Hazardous decomposition products:

Carbon monoxide.
Carbon dioxide (CO₂).
Metallic oxides smoke.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: Toxic by inhalation.

Eye Contact: May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Skin Contact: May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or edema following exposure up to four hours. Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discoloration due to blanching of the skin, complete areas of alopecia, and scars.

Ingestion: Harmful if swallowed.

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Potassium Silicofluoride 16871-90-2	156 mg/kg (Rat)	500 mg/Kg (Guinea pig)	-	-
Potassium Hydrogen Fluoride 7789-29-9	-	-	-	-

Information on Toxicological Effects

Symptoms: Not available.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Skin corrosion/irritation: Causes severe burns. Potassium Hydrogen Fluoride causes severe burns to skin.

Serious eye damage/eye irritation: Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

Sensitization: Not available.

Germ cell mutagenicity: Not available.

Carcinogenicity: Not available.

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Reproductive toxicity: Known human reproductive toxicant. May damage fertility and unborn child

STOT - single exposure: Not available.

STOT - repeated exposure: Not available.

Aspiration hazard: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Other adverse effects: Not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal of wastes:

Proper waste management of the mixture and/or its container must be determined in accordance with applicable local, state, and federal regulations. Do not pour into drains or waterways. Waste management is carried out without endangering human health, without harming the environment and in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste; do not dispose of waste into the environment.

Contaminated packaging: Do not reuse container.

SECTION 14 – TRANSPORT INFORMATION

DOT: Exempt.

TDG: Exempt.

MEX: Exempt.

ICAO: Exempt.

IATA: Exempt.

IMDG: Exempt.

RID: Exempt.

ADR: Exempt.

AND: Exempt.

SECTION 15 – REGULATORY INFORMATION

International Inventories

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TSCA: Does not comply
DSL/NDL: Does not comply
EINECS/ELINCS: Does not comply
ENCS: Complies
IECSC: Complies
KECL: Does not comply
PICCS: Does not comply
AICS: Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard: Yes
Chronic Health Hazard: Yes
Fire hazard: No
Sudden release of pressure hazard: No
Reactive Hazard: No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This product, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulation

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Silicofluoride 16871-90-2	X	-	-
Potassium Hydrogen Fluoride 7789-29-9	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number: Not available

SECTION 16 – OTHER INFORMATION

Issue Date: 08/15/2016

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