

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 05/24/2017 Revision date: 07/14/2020 Supersedes: 09/04/2020 Version: 7.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture		
Trade name	: Handy Flux		
Product code	: A00000226		
1.2. Recommended use and restrictions	on use		
Recommended use	: Flux for metal brazing		
1.3. Supplier			
Lucas-Milhaupt, Inc.			
5656 South Pennsylvania Ave.			
Cudahy, WI 53110 - USA			
T (414)-769-6000			
Contact:SDS Contact			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC within the USA and Canada: 1-800-424-9300 CHEMTREC outside the USA and Canada +1 701-741-5970		
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	ixture		
GHS US classification			
Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1A	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.		
Serious eye damage/eye irritation, Category 2A			
Reproductive toxicity, Category 2	H361 Suspected of damaging fertility or the unborn child.		
Full text of H-statements: see section 16			
2.2. GHS Label elements, including prec	autionary statements		
GHS US labelling			
Hazard pictograms (GHS US)			
Signal word (GHS US)	: Danger		
Hazard statements (GHS US)	: H302 - Harmful if swallowed.		
	H314 - Causes severe skin burns and eye damage. H319 - Causes serious eye irritation.		
	H361 - Suspected of damaging fertility or the unborn child.		
Precautionary statements (GHS US)	: P201 - Obtain special instructions before use.		
	P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray.		
	P264 - Wash hands, forearms and face thoroughly after handling.		
	P270 - Do not eat, drink or smoke when using this product.		
	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell		
	P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.		
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.		
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.		
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove		
	contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention.		
	P310 - Immediately call a poison center/doctor		
	P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth.		
	P330 - Kinse mouth. P337+P313 - If eye irritation persists: Get medical advice/attention.		

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P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not res	ult in classification	
No additional information available 2.4. Unknown acute toxicity (GHS U	(9)	
2.4. Unknown acute toxicity (GHS U Not applicable	5)	
SECTION 3: Composition/inform	ation on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures	e compared of notaesium borates and flaurides	
	s composed of potassium, borates and flourides	
Name	Product identifier %	
Potassium fluoride (K(HF2))	(CAS-No.) 7789-29-9 15 - 30	
Comments : Note: The specific identities of the ingredients of this product are a Trade Secret. Information contained in this Safety Data Sheet accurately discloses the properties, physical and health hazards, first aid measures, and control methods for the safe use of this product. The identities of the ingredients may be determined in accordance with 29CFR 1910.1200(i) or the applicable regulations of other countries.		
Full text of hazard classes and H-statement	s : see section 16	
SECTION 4: First-aid measures		
4.1. Description of first aid measure	IS	
irst-aid measures general	: Call a physician immediately.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.	
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.	
First-aid measures after eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.	
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.		
4.2. Most important symptoms and		
Symptoms/effects after inhalation	: May cause respiratory irritation.	
Symptoms/effects after skin contact	: Burns.	
Symptoms/effects after eye contact	: Serious damage to eyes. Eye irritation.	
Symptoms/effects after ingestion	: Burns.	
	d special treatment, if necessary	
Treat symptomatically.		
SECTION 5: Fire-fighting measur	es	
5.1. Suitable (and unsuitable) exting	Juishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
Insuitable extinguishing media	: Water.	
5.2. Specific hazards arising from the	ne chemical	
No additional information available		
5.3. Special protective equipment a	nd precautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release n	neasures	
6.1. Personal precautions, protectiv	e equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.	

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6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment. Notify	authorities if product enters sewers or public waters.	
6.3. Methods and material for co	ntainment and cleaning up	
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13	3.	
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handlin	g	
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.	
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage,	including any incompatibilities	
Storage conditions	: Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.	
	have and protection	
SECTION 8: Exposure controls		
8.1. Control parameters		

8.2.	Appropriate engineering controls	
	ate engineering controls ental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3.	3. Individual protection measures/Personal protective equipment	
Hand protection:		

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

9.1. Information on basic pl	nysical and chemical properties	
Physical state	: Solid	
Appearance	: White paste.	
Colour	: No data available	
Odour	: No data available	
Odour threshold	: No data available	
эΗ	: No data available	
Melting point	: No data available	
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Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

Other information 9.2.

No additional information available			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
The product is non-reactive under normal conditions of use, storage and transport.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal cond	litions of use.		
10.4. Conditions to avoid			
None under recommended storage and handling of	conditions (see section 7).		
10.5. Incompatible materials			
Alkai earth metals.			
10.6. Hazardous decomposition products			
Boron oxide, Potassium oxide, and/or flourides.			
SECTION 11: Toxicological informatic	SECTION 11: Toxicological information		
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Harmful if swallowed.		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
ATE US (oral)	552.105 mg/kg bodyweight		
Potassium fluoride (K(HF2)) (7789-29-9)			
LD50 oral rat	160 mg/kg		
ATE US (oral)	160 mg/kg bodyweight		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity : Not classified			
Reproductive toxicity	· Suspected of demoging fertility or the unborn child		

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes. Eye irritation.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology	- general	: Before neutralisation, the product may represent a danger to aquatic organisms.	
12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No additional information available			

SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Potassium fluoride (K(HF2)) (7789-29-9)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
15.2. International regulations	
Potassium fluoride (K(HF2)) (7789-29-9)	
Listed on the TCSI (Taiwan Chemical Substanc	e Inventory)

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Potassium fluoride (K(HF2))(7789-29-9)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-statements:

i uii	text of firstatements.			
	H302	Harmful if swallowed.		
H314		Causes severe skin burns and eye damage.		
	H319	Causes serious eye irritation.		
	H361	Suspected of damaging fertility or the unborn child.		
NFPA health hazard		: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.		
NFPA fire hazard		: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.		
NFF	PA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.		
Haz	ard Rating			
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given		
		* - Chronic (long-term) health effects may result from repeated overexposure		
Flar	nmability	: 0 Minimal Hazard - Materials that will not burn		
Phy	sical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		
Per	sonal protection	: B		
		B - Safety glasses, Gloves		

SDS US (GHS HazCom 2012)

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