

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/08/2017 Version: 5.0

SECTION 1. Identification	
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: HANDY ONE® SILVALOY® 505
Product code	: A00000200
1.2. Recommended use and restriction	
Recommended use	: Alloys for brazing/soldering and other metallurgical processes
1.3. Supplier	
Lucas-Milhaupt, Inc. 5656 South Pennsylvania Ave. Cudahy, WI 53110 - USA T (414)-769-6000 LM_SDSinfo@lucasmilhaupt.com - www.Luc	asmilhaupt.com
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	on
2.1. Classification of the substance of	
GHS US classification	
Skin sensitisation, category H317	May cause an allergic skin reaction.
1B	
Carcinogenicity, Category 2 H351 Specific target organ H335	Suspected of causing cancer. May cause respiratory irritation.
toxicity — Single exposure,	may cause respiratory initiation.
Category 3, Respiratory	
tract irritation	
Full text of H statements : see section 16	
2.2. GHS Label elements, including p	precautionary statements
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GHS US labelling Hazard pictograms (GHS US)	
GHS US labelling Hazard pictograms (GHS US) Signal word (GHS US)	: Warning
GHS US labelling Hazard pictograms (GHS US)	: Warning : H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
GHS US labelling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	: Warning : H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.
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GHS US labelling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	 : Warning : H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P203 - Obtain special instructions before use. P204 - Obtain special instructions before use. P205 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P304+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center/doctor if you feel unwell P321 - Specific treatment (see supplemental first aid instruction on this label)
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GHS US labelling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	 Warning H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center/doctor if you feel unwell P321 - Specific treatment (see supplemental first aid instruction on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334-P33 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
GHS US labelling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	 Warning H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention. P312 - Call a poison center/doctor if you feel unwell P314 - Specific treatment (see supplemental first aid instruction on this label). P33+P313 - If skin irritation or rash occurs: Get medical advice/attention. P334+P333 - Store in a well-ventilated place. Keep container tightly closed. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P234 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P234 - Store in a well-ventilated place. P403 + P234 - Store in a well-ventilated place.
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2.3.	Other hazards which do not result in classification		
No add	litional information available		
2.4.	Unknown acute toxicity (GHS US)		
Not app	plicable		
SECT	FION 3: Composition/information on ingredients		
3.1.	Substances		
Not app	plicable		
	plicable Mixtures		
	Mixtures	%	
3.2.	Mixtures Product identifier	% 45 - 55	
3.2. Name	Mixtures e Product identifier		
3.2. Name Silver	Mixtures Product identifier (CAS-No.) 7440-22-4 (CAS-No.) 7440-66-6	45 - 55	

(CAS-No.) 12045-78-2

(CAS-No.) 7440-02-0

3 - 5

1 - 2

Nickel

Potassium borate tetrahydrate

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
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	: 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 effects	s (acute and delayed)
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and spec	cial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ng media
Suitable extinguishing media	: Dry powder. Water spray. Foam.
Unsuitable extinguishing media	: Water.
5.2. Specific hazards arising from the che	mical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and pre	cautions 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 measurements	Ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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".

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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	nent and cleaning up
For containment	: Collect spillage.
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.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. 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

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium fluoride	(7789-23-3)	
Not applicable		
Copper (7440-50-8)		
ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m³ (fume)
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
IDLH	US IDLH (mg/m ³)	100 mg/m ³ (dust, fume and mist)
NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume)
Nickel (7440-02-0)		
ACGIH	ACGIH TWA (mg/m ³)	1.5 mg/m ³ (inhalable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³
IDLH	US IDLH (mg/m ³)	10 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.015 mg/m³
Potassium borate t	etrahydrate (12045-78-2)	
Not applicable		
Silver (7440-22-4)		
ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
OSHA	OSHA PEL (TWA) (mg/m ³)	0.01 mg/m ³
IDLH	US IDLH (mg/m ³)	10 mg/m³ (dust)
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.01 mg/m ³ (dust)
Zinc (7440-66-6)		
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m³ (as ZnO)

8.2. Appropriate engineering controls

- Appropriate engineering controls
- : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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8.3. 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 insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical	l properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
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
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	v

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10.1. Reactivity
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The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability
Stable u	under normal conditions.
10.3.	Possibility of hazardous reactions
No dan	gerous reactions known under normal conditions of use.
10.4.	Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Alkai earth metals.

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10.6. Hazardous decomposition products	
Under normal conditions of storage and use, haza	ardous decomposition products should not be produced.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Potassium fluoride (7789-23-3)	
LD50 oral rat	245 mg/kg
ATE US (oral)	245 mg/kg bodyweight
ATE US (dermal)	300 mg/kg bodyweight
ATE US (gases)	700 ppmv/4h
ATE US (vapours)	3 mg/l/4h
ATE US (dust,mist)	0.5 mg/l/4h
Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg
LC50 inhalation rat (mg/l)	> 10.2 mg/l (Exposure time: 1 h)
Silver (7440-22-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Zinc (7440-66-6)	
LD50 oral rat	630 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Nickel (7440-02-0)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Nickel (7440-02-0)	Courses demons to even through and an an and a superstant and
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
SECTION 12: Ecological information	

SECTION	SECTION 12: Ecological information		
12.1.	Toxicity		
Ecology -	general	: Very toxic to aquatic life.	

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Potassium fluoride (7789-23-3)	
LC50 fish 1	9.3 mg/l (Exposure time: 96 h - Species: Ctenopharyngodon idella)
Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Nickel (7440-02-0)	
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Silver (7440-22-4)	
LC50 fish 1	0.00155 - 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
Zinc (7440-66-6)	
LC50 fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

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	ns	
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		
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5.1. US Federal regulations	
Potassium fluoride (7789-23-3)	
Listed on the United States TSCA (Toxic S	Substances Control Act) inventory
Copper (7440-50-8)	
Listed on the United States TSCA (Toxic S Subject to reporting requirements of Unite	
CERCLA RQ	5000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μ m
Nickel (7440-02-0)	
Listed on the United States TSCA (Toxic S Subject to reporting requirements of Unite	
CERCLA RQ	100 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm
Silver (7440-22-4)	
Listed on the United States TSCA (Toxic S Subject to reporting requirements of Unite	
CERCLA RQ	1000 lb no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm
Zinc (7440-66-6)	
Listed on the United States TSCA (Toxic S Subject to reporting requirements of Unite	
CERCLA RQ	454 kg no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm

15.2. International regulations

Potassium fluoride (7789-23-3)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Copper (7440-50-8)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Nickel (7440-02-0)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Potassium borate tetrahydrate (12045-78-2)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Silver (7440-22-4)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Zinc (7440-66-6)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

MARNING: This product can expose you to Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Nickel(7440-02-0)	Х					

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Component	State or local regulations			
Copper(7440-50-8)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List			
Nickel(7440-02-0)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S Pennsylvania - RTK (Right to Know) List			
Potassium fluoride(7789-23-3)	U.S New Jersey - Right to Know Hazardous Substance List			
Potassium borate tetrahydrate(12045-78-2)				
Silver(7440-22-4)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List			
Zinc(7440-66-6)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List			

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

H317	May cause an allergic skin reaction.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	

SDS US (GHS HazCom 2012)

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