

Page: 1/10

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

1 Identification

· Product identifier

· Trade name: 2-K Metall Kit · Product code: 23930

· Recommended use and restriction on use

· Recommended use: Metal working

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

FERTAN LLC 12485 S West 137th Avenue, Suite 212 Miami, FL 33186

USA

(305) 614-1140

contact@fertanusa.com http://www.fertanusa.com

· Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS07

Signal word: Warning

· Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

· Precautionary statements:

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves and eye protection. P302+P352 If on skin: Wash with plenty of soap and water.

(Cont'd. on page 2)





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 1)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Component	ts:	
14807-96-6	Talc	0-40%
1332-58-7	Kaolin	0-40%
	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	10-20%
7439-89-6	Iron	0-10%
7440-50-8	copper	0-10%
	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H312; Skin Sens. 1B, H317	1-5%

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

- Description of first aid measures
- · **General information:** No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Allergic reactions

Causes eye irritation.

Causes skin irritation.

· **Danger:** Long term inhalation of product dust may be harmful.

(Cont'd. on page 3)



Page: 3/10

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 2)

· Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane. May produce an allergic reaction.

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling:

Use only in well ventilated areas.

Avoid breathing dust.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat.
- Information about storage in one common storage facility:

(Cont'd. on page 4)





Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 3)

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

- · Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

· Control paran		
•	vith limit values that require monitoring at the workplace:	
1317-65-3 Lime		
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV (USA)	TLV withdrawn	
14807-96-6 Tale	c	
PEL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)	
REL (USA)	Long-term value: 2* mg/m³ *respirable dust; and <1% Quartz	
TLV (USA)	Long-term value: 2* mg/m³ *as respirable fraction; E	
EL (Canada)	Long-term value: 2 *0.1 f/cc mg/m³ resp. *if contains asbestos : ACGIH A1, IARC 1	
EV (Canada)	Long-term value: 2* mg/m³, 2 f/cc ppm *respirable	
LMPE (Mexico)	Long-term value: 2* mg/m³ A4, *fracción respirable	
1332-58-7 Kaol	in	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV (USA)	Long-term value: 2* mg/m³ E; as respirable fraction	
EL (Canada)	Long-term value: 2 mg/m³	
EV (Canada)	Long-term value: 2(D) mg/m³ respirable	
LMPE (Mexico)	Long-term value: 2* mg/m³ A4, *fracción respirable	
7439-89-6 Iron		
EV (Canada)	Long-term value: 1* 5** mg/m³ as iron;*salts, water-soluble;**welding fume	
LMPE (Mexico)	Long-term value: 1 mg/m³	
		(Cont'd. on page





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

		(Cont'd. of page 4)
7440-50-8 copp	per	
PEL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
REL (USA)	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	
TLV (USA)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu	
EL (Canada)	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume, as Cu	
EV (Canada)	Long-term value: 0.2* 1** mg/m³ as copper, *fume;**dust and mists	
LMPE (Mexico)	Long-term value: 0.2* 1** mg/m³ *humo (como Cu);**polvo y niebla (como Cu)	

- · Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment:

Not required under normal conditions of use.

For operations generating dust: Wear FFP3 dust mask.

Protection of hands:



Protective gloves

When needed, wear gloves for protection against mechanical hazards.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

9 Physical and chemical properties

- Information on basic physical and chemical properties
- · Appearance:

Form: Pasty

(Cont'd. on page 6)





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

		(Cont'd. of page 5)
Color: · Odor: · Odor threshold:	Gray Characteristic Not determined.	
· pH-value: · Melting point/Melting range: · Boiling point/Boiling range:	Not applicable. Not determined. 320 °C (608 °F)	
· Flash point:	>200 °C (>392 °F) The product is not flammable.	
· Flammability (solid, gaseous):	Not determined.	
· Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
Explosion limitsLower:Upper:Oxidizing properties:	Not determined. Not determined. Not determined.	
· Vapor pressure:	Not determined.	
 Density at 20 °C (68 °F): Relative density: Vapor density: Evaporation rate: 	1.85 g/cm³ (15.44 lbs/gal) Not determined. Not applicable. Not applicable.	
· Solubility in / Miscibility with Water:	Partly miscible.	
· Partition coefficient (n-octanol/water)	: Not determined.	
· Viscosity Dynamic: Kinematic: · Other information	Not applicable. Not applicable. No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with strong acids and oxidizing agents.

- · Conditions to avoid No relevant information available.
- · Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

(Cont'd. on page 7)





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 6)

Carbon monoxide and carbon dioxide Toxic metal oxide smoke Nitrogen oxides

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classifi	cation:		
25068-38-6 4,4'-Isopropylidenediphenol,	oligomeric reactio	n products wit	h 1-chloro-2.3-
epoxypropane	ongomono rodono	p. oaaotot	
Oral II D50 >2000 mg/kg (rat female)			

Oral	LD50	>2000 mg/kg (rat, female)
Dermal	LD50	>2000 mg/kg (rat)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	2169 mg/kg (rat)
Dermal	LD50	>1000 mg/kg (rat)

- Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes and skin.
- · Repeated dose toxicity: May cause sensitization by skin contact.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity

(Cont'd. on page 8)





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 7)

Toxic for aquatic organisms

25068-38-6 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

EC50 2.7 mg/kg (daphnia) (48hr)

LC50 1.2 mg/l (Oncorhynchus mykiss) (96hr)

2.4 mg/l (zebra fish) (96hr)

- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Toxic for aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

· Other adverse effects No relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**
- · **Recommendation:** Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Environmental hazards	Not applicable.	
		(Cont'd. on page 9)





according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall	rrau	·K ivietali r	-n wetan
------------------------	------	---------------	----------

(Cont'd. of page 8)

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7440-50-8 copper

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Reference to talc is based on unbound respirable particles and is not generally applicable to product as supplied.

14807-96-6 Talc

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· EPA (Environmental Protection Agency):

7440-50-8 copper

D

· IARC (International Agency for Research on Cancer):

14807-96-6 Talc

3

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Cont'd. on page 10)



Page: 10/10

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: October 14, 2019

Trade name: 2-K Metall Kit

(Cont'd. of page 9)

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation - Category 1B

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com