SDS Preparation Date (dd/mm/yyyy): 28/02/2015

Page 1 of 9

# **SAFETY DATA SHEET**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product identifier : Burnley Soldering Paste - Korean

Product Code(s) : BSP2E-K

Relevant identified uses of the substance or mixture and uses advised against

: Soldering paste.

Use pattern: professional use.

# Details of the supplier of the safety data sheet:

# **G.F. Thompson Company Ltd.**

620 Steven Court Newmarket, ON, Canada

L3Y 6Z2

**Telephone** : (905) 898 2557

**Emergency Telephone Number** 

: 001-905-252-4793 (Canada)

## SECTION 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

paste - reddish brown. Slight petroleum odour.

Most important hazards:

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Skin corrosion/irritation - Category 1B; H314

Specific target organ toxicity - single exposure - Category 3; H335

Acute aquatic hazard - Category 1; H400 Chronic aquatic hazard - Category 1; H410

The preparation is classified as dangerous in accordance with Directive 1999/45/EC. Hazardous classification:

Xn - Harmful

R22 - Harmful if swallowed.

C - Corrosive

R34 - Causes burns.

N - Dangerous for the environment

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# Label elements

Signal word: Danger!

Hazard statements:

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

H410 - Very toxic to aquatic life with long lasting effects.

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#### Precautionary statements:

P260 - Do not breathe fumes or vapours.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/clothing and eye/face protection.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 - Wash contaminated clothing before re-use.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P391 - Collect spillage.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local regulation.

## Hazard pictograms:







#### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Prolonged or repeated overexposure could cause adverse liver effects.

Environmental precautions: Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

PBT assessment: This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Substances**

Not applicable

#### **Mixtures**

Chemical nature: Mixture - Petroleum hydrocarbon; Zinc salt.

The following substances shall be indicated according to legislation:

Chemical name	CAS#	EC No.	Concentration	EU Classification	CLP Classification
Petrolatum	8009-03-8	232-373-2	65.0 - 76.0	*not hazardous	*not hazardous
Zinc chloride	7646-85-7	231-592-0	20.0 - 24.5	Xn - Harmful; R22 C - Corrosive; R34 N - Dangerous for the environment; R50/53	**Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

#### Note:

For the full text of the H and R phrases mentioned in this Section, see Section 2.

<sup>\*</sup>The following petroleum derived chemicals were not produced from a carcinogenic substance: Petrolatum.

<sup>\*\*</sup>The above CLP Acute toxicity Classifications for the following chemicals are Minimum Classifications': Zinc chloride.

Product code(s): BSP2E-K

### SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Ingestion : Do NOT induce vomiting. Rinse mouth. Give small amounts of water to drink. Never give

anything by mouth to an unconscious person. Call a physician or poison control centre

immediately.

Inhalation : Immediately remove person to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Call a physician or poison control centre immediately.

Skin contact: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse. Call a physician or poison

control centre immediately.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control centre

immediately.

#### Most important symptoms and effects, both acute and delayed

: Causes severe skin burns and eye damage.

May cause respiratory irritation.

May cause severe irritation and corrosive damage in the mouth, throat and stomach.

Could result in pulmonary edema (fluid accumulation).

Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

## Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Causes burns.

### SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable extinguishing media

 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

: None known. .

# Special hazards arising from the substance or mixture

Product may float, and be re-ignited at the water's surface. The pressure in sealed containers can increase under the influence of heat. In the event of fire the following can be released: Carbon oxides; Hydrogen chloride gas; Chlorine; Zinc oxide; Hydrocarbons.

## Advice for firefighters

Protective equipment for fire-fighters

: Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

: Wear chemically resistant personal protective equipment during cleanup. Wear protective gloves/clothing and eye/face protection. Keep people away from and upwind of spill/leak. Corrosive!

## **Environmental precautions** : Do no

: Do not allow material to contaminate ground water system.

### Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled containers. Avoid dust formation. Contact the proper local authorities. Clean contaminated floors and objects thoroughly while observing environmental regulations.

#### Reference to other sections

 Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Use only in well-ventilated areas. Wear chemically resistant protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Do not breathe fumes or vapours. Keep away from heat and sources of ignition. Keep away from bases and incompatibles. Keep melting temperatures as low as possible to minimize generation of fumes. Keep containers closed when not in use. Wash thoroughly after handling. Discard contaminated leather goods, such as shoes.

## Conditions for safe storage, including any incompatibilities

: Store in cool/well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Keep out of the reach of children. Store locked up.

Specific end use(s) : Soldering paste.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

Exposure Limits:					
Chemical Name	Exposure Limits	<u>Type</u>	<u>Notes</u>		
Petrolatum					
	None known.	European Union (OEL)	None.		
Zinc chloride					
	1 mg/m³ (TWA) 2 mg/m³ (STEL)	Korea (ISHA) (OEL)	(fumes)		
	1 mg/m³ (TWA)	France (OEL)	(fumes)		
	1 mg/m³ (TWA) 2 mg/m³ (STEL)	Poland (OEL)	None.		
	1 mg/m³ (TWA) 2 mg/m³ (STEL)	Spain (OEL)	(fumes)		
	1 mg/m³ (TWA) 2 mg/m³ (STEL)	The United Kingdom (WELs)	(fumes)		

### **Exposure controls**

# Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

## Respiratory protection

: Respirators may be used when engineering and work practice controls are not technically feasible, or when they fail and need to be supplemented. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. The type of respiratory protection will depend on the conditions of use (see also EN 149).

## Skin protection

: Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

#### Eye / face protection

Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Face-shield.
 See also EN 166.

# Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

# General hygiene considerations

: Do not breathe fumes or vapours. Avoid contact with skin, eyes and clothing. Keep melting temperatures as low as possible to minimize generation of fumes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Appearance: paste - reddish brownOdour: Slight petroleum odour.Odour threshold: No information available.pH: No information available.

Flash point : 182 - 221°C
Flashpoint (Method) : closed cup

Lower flammable limit (% by vol.)

No information available.

Upper flammable limit (% by vol.)

: No information available.

Flammability (solid, gas) : Not applicable.

Auto-ignition temperature : No information available.

Decomposition temperature : No information available.

Oxidizing properties : None.

**Explosive properties**: Not explosive.

Initial boiling point and boiling range

: No information available.

Melting/Freezing point: 37.8°CRelative density: 0.87 @ 20°CSolubility in water: Soluble in cold waterOther solubility(ies): No information available.Vapour pressure: 218 mmHg @ 20°CVapour density: No information available.

Partition coefficient: n-octanol/water

No information available.No information available.

Viscosity : No information available. Evaporation rate (BuAe = 1) : No information available.

**Other Information** 

Volatiles (% by weight) : < 1% Volatile organic Compounds (VOC's)

: No information available.

Other physical/chemical comments

: No additional information.

# SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: Not normally reactive.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Direct sources of heat. Incompatible products Do not use in areas without adequate

ventilation. Keep melting temperatures as low as possible to minimize generation of fumes.

Incompatible materials : strong oxidizers such as calcium hypochlorite (pool chlorine); Strong bases; Potassium.

Product code(s): BSP2E-K

### SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

# Hazardous decomposition products

: In the event of fire the following can be released: Carbon oxides; Hydrogen chloride gas; Chlorine; Zinc oxide; Hydrocarbons.

# SECTION 11. TOXICOLOGICAL INFORMATION

## **Information on Toxicological effects:**

**Acute toxicity** : According to the classification criteria of the European Union, this product is not considered

as being an acutely toxic chemical.

Skin corrosion/Irritation This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Classification:

Skin corrosion/irritation - Category 1B - Causes severe skin burns and eye damage.

Serious eye damage/irritation : This material is classified as a Skin corrosion/irritation Category 1A material. Causes severe

skin burns and eye damage.

Respiratory or skin sensitisation

: According to the classification criteria of the European Union, this product is not considered

as being an allergic respiratory sensitiser.

According to the classification criteria of the European Union, this product is not considered

as being an allergic skin sensitiser.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity STOT-single exposure : Contains no ingredient listed as a mutagen.

Contains no ingredient listed as a carcinogen.

: The calculated ATE values for this mixture are: ATE oral = 4118 - 4297 mg/kg

Contains no ingredient listed as toxic to reproduction.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008.

Classification:

Specific target organ toxicity - single exposure - Category 3. May cause respiratory irritation.

STOT-repeated exposure

Aspiration hazard

: According to the classification criteria of the European Union, this product is not expected to

cause target organ toxicity through repeated exposures. : According to the classification criteria of the European Union, this product is not considered

as being an aspiration hazard to humans. Toxicological data

	LC50(4hr)	LD50	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)
Petrolatum	No information available.	> 5000 mg/kg	> 4000 mg/kg
Zinc chloride	No information available.	1100 mg/kg	No information available.

See below for individual ingredient acute toxicity data.

# Routes of exposure Effects of acute exposure

: Eye contact; Skin contact; Skin Absorption; Ingestion; Inhalation.

Inhalation: May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye damage. May cause blindness.

Ingestion: May cause severe irritation and corrosive damage in the mouth, throat and stomach.

#### **Potential Chronic Health Effects**

Chronic skin contact with low concentrations may cause dermatitis. Prolonged or repeated

overexposure could cause adverse liver effects.

Other important hazards

: None known or reported by the manufacturer.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

: Very toxic to aquatic life with long lasting effects. There is no data available for this product.

Should not be released into the environment. Contains: Zinc chloride.

The acute toxicity of zinc chloride is (WHO 2001, EHC # 221): Toxicity to fish - LC50/96h/rainbow trout = 0.17 mg/L Toxicity to daphnia - EC50/48h/daphnia = 0.28 mg/L

Persistence and degradability

: Contains: Zinc chloride. Zinc chloride is an inorganic material. Biodegradation is not

applicable to inorganic materials.

Bioaccumulation potential

: No data is available on the product itself.

Mobility in soil

: The product itself has not been tested.

Results of PBT and vPvB assessment

: This preparation contains no substance considered to be persistent, bioaccumulating nor

toxic (PBT).

Other Adverse Environmental effects

: None known.

Water contaminating class (Germany)

: 3 (self classified)

## SECTION 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods:**

**Handling for Disposal** 

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective

measures listed in sections 7 and 8.

**Methods of Disposal** 

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product

was used.

# SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Number UN proper shipping name		Packing Group	Label
ADR/RID	UN1759	CORROSIVE SOLID, N.O.S. (Zinc chloride)	8	III	
EU ADR/RID Classification Code	C10 - Corrosive substances without subsidiary risk; Other corrosive substances; solid				
EU ADR / RID Hazard Identification Number	80 - corrosive or slightly corrosive substance				
ADR/RID Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 kg; in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN1759	Corrosive solid, n.o.s. (Zinc chloride)	8	III	
ICAO/IATA Additional information	itional shipping this material.				Variations, prior to

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

IMDG	UN1759	CORROSIVE SOLID, N.O.S. (Zinc chloride)	8	III	<u> </u>
IMDG Additional information  May be shipped as Limited Quantity when transported in containers no larger than 5.0 kg; in package gross mass.  This product meets the criteria for an environmentally hazardous material according to the IMDG Commust be included with the shipping description on documentation.					5 5

Special precautions for user

: Wear chemically resistant protective equipment during handling.

**Environmental hazards** 

: This mixture meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

#### SECTION 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

- 1. Substances presenting a physical, health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008.
  - Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.
  - 3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
  - 4. In accordance with the legislation of the United Kingdom.
  - 5. German legislation on water endangering substances VwVwS (see Section 12)

Chemical safety assessment : A chemical safety assessment has not been carried out by the Manufacturer of this product.

### **SECTION 16. OTHER INFORMATION**

Legend

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

Road

CAS: Chemical Abstract Services

EC: European Community

ECHA: European Chemicals Agency

EN: European Standard EU: European Union

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods

Inh: Inhalation

ISHA: Industrial Safety and Health Act

IUCLID: International Uniform Chemical Information Database

LC: Lethal Concentration

LD: Lethal Dose

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time Weighted Average WEL: Workplace Exposure Limit

Information Source

: 1. Material Safety Data Sheet from manufacturer.

- Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2013 (Chempendium, RTECs, HSDB, INCHEM).
- European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2013.
- 4. European Chemicals Agency, Classification Legislation, 2013.
- 5. OECD The Global Portal to Information on Chemical Substances eChemPortal, 2013.

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H & R-Phrases (Full text)

: H302 - Harmful if swallowed. H400 - Very toxic to aquatic life.

Refer to section 2 for additional H and R phrases not listed here.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

# Prepared for:

G.F. Thompson Co. Ltd. 620 Steven Court

Newmarket, ON, Canada, L3Y 6Z2 Telephone: 001-905- 898-2557

Please direct all enquiries to G.F. Thompson.

### Prepared by:

ICC The Compliance Center Inc. http://www.thecompliancecenter.com



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