

Safety Data Sheet

According to 1907-2006/EC, Article 31

Version: 1.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: 1200 Thinner

Details of the supplier of the safety data sheet:

This Safety Data Sheet has been updated in accordance with the Globally Harmonized System (GHS).

Manufacturer Name: Canfield Technologies/BOW Electronic Solders

Address: 1 Crossman Road, Sayreville, NJ 08872

General Phone Number: 732-316-2100

INFOTRAC 24 Hour Emergency Telephone Number: 1-800-535-5053

SDS Creation Date 6-Jan-15

SDS Revision Date: 6-Jan-15

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) NO 1272/2008



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor



GHS08 Health Hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS08



GHS02



GHS07

Signal word: Danger

Hazard-determining components of labeling: Alcohol Solvent.

Hazard Statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H320 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling

P271 Use only outdoors or in a well-ventilated area

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.

- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- P312** Call a POISON CENTER or doctor/physician if you feel unwell.
- P332+313** If skin irritation occurs: Get medical advice/attention.
- P337+313** If eye irritation persists: Get medical advice/attention.
- P361** Remove/take off immediately all contaminated clothing.
- P363** Wash contaminated clothing before reuse.

Classification system:

NFPA ratings (scale 0-4)



HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

3. COMPOSITION OF MIXTURE

Chemical characterization: Mixtures

Description: Mixtures of the substances listed below with nonhazardous additions.

CAS #.	Description	% Range
CAS#: 64-17-5	Ethanol	80-90
EINECS: 200-578-6		
CAS#: 67-56-1	Methanol	0-4
EINECS: 200-656-6		
CAS#: 108-10-1	Methyl Isobutyl Ketone	0-5
EINECS: 203-550-1		
CAS#: 141-78-6	Ethyl Acetate	0-1
EINECS:205-500-4		

Additional information:

This solder product does not contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list

4. FIRST AID MEASURES

Description of first aid measures

- After inhalation:** Supply fresh air, consult doctor in case of complaints.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** Seek immediate medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed. No further relevant information available.
Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5. FIREFIGHTER MEASURES

Extinguishing media

Suitable extinguishing agents: CO2, sand extinguishing powder. Use water in large amounts.

Special hazards arising from the substance or mixture

In certain fire conditions, traces of other toxic gases cannot be excluded.
In case of fire, the following can be released:

Nitrogen oxides (Nox)

Advice for fire fighters

Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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: Ensure good ventilation /exhaustion at the workplace.

Information about protection against explosions and fires: No ignition sources - do not smoke.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use (s): No further relevant information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

EXPOSURE Limits:

Material	CAS #	EINECS#	TWA (OSHA)	TLV (ACGIH)
Ethanol	64-17-5	200-578-6	1000 ppm	1000 ppm A4
Methanol	67-56-1	200-656-6	200 ppm S	200 ppm S
Methyl Isobutyl Ketone	108-10-1	203-550-1	100 ppm	20 ppm A3
Ethyl Acetate	141-78-6	205-500-4	400 ppm	400 ppm

Material	CAS #	EINECS#	CELILING	STEL (OSHA/ACGIH)	HAP
Methanol	67-56-1	200-656-6	None Known	250 ppm	Yes
Methyl Isobutyl Ketone	108-10-1	203-550-1	None Known	75 ppm	Yes

Each component showing 'Yes' under "HAP" is an EPA Hazardous Air Pollutant.

Exposure controls

Personal protective equipment:

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.

Avoid contact with the eyes and skin.

Breathing equipment:

Exposure controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation to control Airborne levels below recommended exposure limits.

When ventilation is not sufficient to remove airborne levels from the breathing zone, a NIOSH safety approved respirator or self-contained breathing apparatus should be worn. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Protection of hands:



Protective gloves

Material of gloves:

Nitrile rubber, NBR

Natural rubber, NR

Penetration time of glove material:

The exact break through time has to be found by the manufacturer of the protective gloves and to be observed.

Eye protection:

Face Shield when refilling

Body protection:

Apron

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****General Information****Appearance:** Liquid, Water-White**Odor:** Ketone**pH-value:** Not available**Melting point/melting range:** Not available**boiling point/boiling range:** 63 77 117 °C / 147 172 243 °F (=END POINT)**Flash point :** 29°F / -1 °C (TTC) Lowest Component**Ignition temperature:** 422°C (793°F)**Explosion Limits:****Lower:** 1.4% Vol**Upper:** Not available**Vapor pressure (mm of Hg) @ 20 °C:** 42.1**Vapor Density (Air=1)::** 1.4**Solubility in / miscibility with Water:** Appreciable**Solvent content****Organic solvents:** VOC content 459 g/L**10. STABILITY AND REACTIVITY****Reactivity****Chemical stability:**

Stable under normal conditions, no hazardous reactions when kept from incompatibles.

Possibility of hazardous reactions: Isolate under oxidizers, heat, sparks, electric equipment @ open flame.**Incompatible materials:** Strong acids, strong oxidizers.

The substance can presumably form explosive peroxides, under the influence of light and air, check for peroxide prior to distillation, eliminate if found.

Reacts violently with strong oxidants, strong reducing agents, causing fire & explosion hazard.

Hazardous decompositions products: Carbon Monoxide, Carbon Dioxide from burning.**Hazardous polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute Hazards:****Primary irritant effect:****Skin Contact:** Primary irritant to skin, defatting, dermatitis.**Eye Contact:** Primary irritant to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation.**Inhalation:** Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation.**Swallowing:** Swallowing can cause abdominal irritation, vomiting & diarrhea.**Sensitization:** No component is known as a sensitizer.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Harmful

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

Material	CAS #	EINECS#	Lowest Known Lethal Dose Data
			Lowest Known LD50 (ORAL)
Methanol	67-56-1	200-656-6	1000.0 mg / Kg (man)
			Lowest Known LC50 (VAPORS)
Ethyl Acetate	141-78-6	205-500-4	1600 ppm (Rats)
			Lowest Known LD50 (SKIN)
Methanol	67-56-1	200-656-6	20000.0 mg / Kg (Rabbits)
			Lowest Known LC50 (VAPORS)

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12. ECOLOGICAL INFORMATION**Toxicity**

Aquatic toxicity: No further relevant information available.

Additional ecological information**General notes:**

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

Result of PBT and vPvB assessment

PBT: Not applicable.

VPvB: Not applicable.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Uncleaned packaging's:

Recommendations: Disposal must be made in accordance to official regulations.

14. TRANSPORT INFORMATION**Marine pollutant:**

No

DOT/ TDG Ship Name:

UN 1170 Ethanol solutions, 3 PG II

Drum Label:

Flammable Liquid.

IATA / ICAO :

UN 1170 Ethanol solutions, 3 PG II

IMO / IMDG :

UN 1170 Ethanol solutions, 3 PG II

Emergency Response Guidebook Number: 127

**15. REGULATORY INFORMATION****Safety, health and environmental regulation/ legislation specific for the substance or mixture**

All ingredients are listed on the following Government Inventories:

China: Inventory of Existing Chemical Substances in China (IECSC)

Korea: Korea Existing Chemicals List (ECL)

Europe: European Inventory of Existing Commercial Substances (EINECS)

Japan: Inventory of Existing and New Chemical Substances (ENCS)

Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS)

USA: TSCA (Toxic Substances Control Act) TSCA Inventory of Chemical Substances

USA The following information relates to product regulation specific to the USA:

EPA (Environmental Protection Agency)

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (Extremely hazardous substances):

None of the ingredients is listed

Section 313 (Specific toxic chemical listings):

SARA Title III Section Indredients	CAS#	EINECS#	WT%	(REG.SECTION)	RQ (LBS)
Methanol	67-56-1	200-656-6	0-4	(311,312,313,RCRA)	5000
Methyl Isobutyl Ketone	108-10-1	203-550-1	0-5	(311,312,313,RCRA)	5000
Ethyl Acetate	141-78-6	205-500-4	0-1	(311 , 312)	5000

California Proposition 65

Chemicals known to cause cancer: Methanol, Ketone

CANADA: Workplace Hazardous Materials Identification (WHMIS):

B2: Flammable Liquid.

D2B: Irritating to skin / eyes.

16. OTHER INFORMATION

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Bow/Canfield Technologies extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. This Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process.

All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Safety Data Sheet as a source for hazard information.

Department issuing Safety Data Sheet (SDS): Product Compliance / EHS Department

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.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

EINECS : European Inventory of Existing Commercial Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA).

HMIS: Hazardous Materials Identification System (USA).

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox.2: Acute toxicity, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Resp. Sens. 1: Sensitisation- Respirat., Hazard Category 1

Resp. Sens. 1B: Sensitisation- Respirat., Hazard Category 1B

Skin Sens. 1: Sensitisation- Skin, Hazard Category 1

Skin Sens. 1B: Sensitisation- Skin, Hazard Category 1B

Carc. 1A: Carcinogenicity, Hazard Category 1 A

STOT SE 1: Specific Target organ toxicity- Single exposure, Hazard Category 1

STOT SE 3: Specific Target organ toxicity- Single exposure, Hazard Category 3

Data compared to the previous version altered.