SAFETY DATA SHEET
(SDS) 1907/2006 EC

Date of release: 25/09/2019 **Date of last release 22/02/2018**

1. IDENTIFICATION OF SUBSTANCE & COMPANY IDENTIFICATION

Product:	1985 Rapid cold solvent weld adhesive
Use:	Solvent and resin based adhesive for UPVC primarily in clear although; other colours are available
Company Address:	21-23 Gloster Road, Martlesham Heath Industrial Estate, Ipswich, Suffolk. England, IP5 3RD Tel: +44 (0) 1473 622265 or 626651 Fax: +44 (0) 1473 610651 Email : stelmaxltd@aol.com
Emergency Information	Tel Number +44 (0) 1473 622265

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Flammable liquids, Category 2
Eye irritation, Category 2

Specific target organ toxicity – single exposure, Category 3

Classification (67/548/EEC, 1999/45/EC)
Highly flammable
Irritant

H225: Highly flammable liquid and vapour
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer
EUH019: May form explosive peroxides
explosive peroxides

Label Elements
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Hazard statements	H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH019: May form explosive peroxides
Supplemental Hazard statements	EUH066 Repeated exposure may cause skin dryness or crackingepeated exposure may cause skin dryness or cracking
Precautionary statements	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P261: Avoid breathing dust/fume/gas/mist/vapors/spray P280: Wear protective gloves/protective clothing/eye protection/face protection P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation nts container in accordance with local regulation

EMERGENCY OVERVIEW

Clear/coloured liquid. Highly flammable which may form explosive peroxides

3, COMPOSITION

	CAS#	EINECS #	REACH CONCENTRATION Pre-registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	<75%
Resin	9003-22-9			<20%

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

* Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

4. FIRST AID

GENERAL ADVICE: In case of accident or if you feel unwell, seek medical advice immediately.First aider need to protect themselves. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
SKIN CONTACT: In case of skin contact flush skin immediately with soap and plenty of water.
Do **NOT** use solvents or thinners. If the skin irritation persists seek medical attention.
INHALATION: If breathed in, move person into fresh air. If symptoms persists, seek medical attention.
Keep person warm and calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
I**NGESTION:** If swallowed, seek medical attention immediately and were possible show this or label/container. If swallowed **DO NOT** induce vomiting.
EYE CONTACT: Protect unharmed eyes. Remove contact lens if worn. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide **(**CO2), alcohol resistant foam, dry powder or water mist, earth or sand.
UNSUITABLE EXTINGUISHING MEDIA: High volume water jet.
FIRE & EXPLOSION HAZARDS / HARMFUL COMBUSTION PRODS. Vapour/ air may be explosive. Combustion may result in toxic acidic fumes and carbon monoxide. May form organic peroxides. Vapour heavier than air – ignition may occur at a distance.
SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, wear self contained breathing apparatus. Use personal protective equipment. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES: Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin & eyes. Ensure adequate ventilation., especially in confined areas. Immediately evacuate person to safe area. Avoid inhalation of vapour or mist. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
ENVIRONMENTAL PRECAUTIONS: Do not flush into surface water or sanitary sewer systems. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform relevant authorities.
SPILLAGE OR LEAK PROCEDURES: Contain and collect spillage with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

HANDLING: Wear appropriate clothing (see exposure controls). Avoid all sources of ignition, sparks, flames, electrical equipment, arc lights, static discharges etc. No smoking.
PROTECTION AGAINST FIRE& EXPLOSION: Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from heat and sources of ignition. Do not smoke. No sparking tools should be used. Electrical equipment should be protected to the appropriate standard.
STORAGE: Store in a cool, dry, well-ventilated area. Avoid all sources of ignition, sparks, flames, electrical equipment, arc lights, static discharges etc, away from incompatible chemicals
(avoid contact with oxidising agents (peroxides, nitrates etc).

8. PERSONAL PROTECTION

Avoid inhaling vapour. Avoid contact with skin and eyes. Eye baths should be provided in places where exposure may be possible. Wear chemical resistant goggles, solvent resistant gloves (neoprene or nitrile rubber). Impervious boots and polycotton overalls. If high vapour concentrations are present, self contained breathing apparatus, or full-face respirator with organic cartridge NPF20. Ensure good ventilation. Exposure may be possible.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.2 EXPOSURE CONTROLS cont
Provide adequate ventilation. Execute works under fume hood. Personal protection equipment
Occupational exposure controls Respiratory protection:
Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387. Hand protection: Protective gloves according to EN 374. Glove material: Butyl caoutchouc (butyl rubber) Layer thickness: 0.7 mm. Breakthrough time: >240 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Exposure guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Tetrahydrofuran	TWA: 50 ppm STEL: 100 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 590 mg/m3 (Vacated) STEL: 250 ppm (Vacated) STEL: 735 mg/m3 TWA: 200 ppm TWA: 590 mg/m3	IDLH: 2000 ppm TWA: 200 ppm TWA: 590 mg/m^3 STEL: 250 ppm STEL: 735 mg/m^3	TWA: 200 ppm TWA: 590 mg/m^3 STEL: 250 ppm STEL: 735 mg/m^3

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

9, PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available
pH	7-8 20% aq. solution
Melting Point/Range	-108.4 °C / -163.1 °F
Boiling Point/Range	66 °C / 150.8 °F
Flash Point	-21 °C / -5.8 °F
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	11.8%
Lower	2.0%
Vapor Pressure	200 mbar @ 20 °C
Vapor Density	2.5 (Ether = 1.0)
Specific Gravity	0.880
Solubility	miscible
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	215 °C / 419 °F
Decomposition Temperature	No information available
Viscosity	0.55 cP @ 20 °C
Molecular Formula	C4H8O
Molecular Weight	72.11

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10. Stability and reactivity

Reactive Hazard Yes.

Stability May form explosive peroxides. Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Acids

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2), peroxides

Hazardous Polymerization Hazardous polymerization may occur.

Hazardous Reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrahydrofuran	1650 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	180 mg/L (Rat) 1 h 53.9 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes May cause irritation of respiratory tract

Sensitization No information available

Carcinogenicity Limited evidence of a carcinogenic effect.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tetrahydrofuran	109-99-9	Not listed	Not listed	A3	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Causes central nervous system depression

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Tetrahydrofuran	Group III Chemical	Not applicable	Not applicable

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Tetrahydrofuran	Not listed	2160 mg/l LC50 = 96 h Pimephales promelas Leuciscus idus: LC50: 2820 mg/L/48h	Not listed	EC50 48 h 3485 mg/l EC50: >10000 mg/L/24h

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Tetrahydrofuran	0.45

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Tetrahydrofuran - 109-99-9	U213	-

14 TRANSPORT INFORMATION

DOT

UN-No	UN2056
Proper Shipping Name	TETRAHYDROFURAN
Hazard Class	3
Packing Group	II

TDG

UN-No	UN2056
Proper Shipping Name	TETRAHYDROFURAN
Hazard Class	3
Packing Group	II

IATA

UN-No	UN2056
Proper Shipping Name	TETRAHYDROFURAN
Hazard Class	3
Packing Group	II

IMDG/IMO

UN-No	UN2056
Proper Shipping Name	TETRAHYDROFURAN
Hazard Class	3
Packing Group	II

CARRIAGE CLASSIFICATION: Flammable Liquid
PACKING GROUP: II
ADR/RID: 3

IMO CLASS: 3.1
HAZCHEM CODE: 3(Y) E

15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tetrahydrofuran	X	X	-	203-726-8	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
Tetrahydrofuran	Section 4, 1 % de minimus concentration

SARA 313 Not applicable

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tetrahydrofuran	1000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tetrahydrofuran	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	Serious risk, Grade 3

OTHER INFORMATION

Prepared By	Regulatory Affairs Stelmax Ltd
Creation Date	25-SEP-2019
Revision Date	28-MAR-2018
Print Date	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Revision Summary	

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text