# **Safety Data Sheet**

**SC-325** 

Issue Date: 15-May-2012 Revision Date: 03-Dec-2014 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name SC 325

Other means of identification

**SDS #** CIP-015

UN/ID No UN1992

Recommended use of the chemical and restrictions on use

Recommended Use Adhesive.

Details of the supplier of the safety data sheet

**Supplier Address** 

Caseway Industrial Products, Inc.

3487 Highland Drive Bay City, MI 48706 Ph: 989-391-9992 Fax: 989-391-9994

**Emergency Telephone Number** 

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America) Contract # 106140
\*\*\*Contact manufacturer for all non-emergency calls\*\*\*

## 2. HAZARDS IDENTIFICATION

Appearance Clear colorless liquid Physical State Liquid Odor Ether-like

#### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 2

#### **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

## Signal Word

Danger

## **Hazard Statements**

Causes skin irritation

Causes serious eye irritation

May cause cancer

May cause respiratory irritation. May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Highly flammable liquid and vapor



#### **Precautionary Statements - Prevention**

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

## **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Get medical attention

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

Wash contaminated clothing before reuse

If skin irritation persists: Get medical advice/attention immediately

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemi	cal Name	CAS No	Weight-%
Tetrah	/drofuran	109-99-9	40-60
Dichlor	omethane	75-09-2	40-60

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

physician or poison control center immediately.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce

vomiting without medical advice. Get medical attention immediately.

#### Most important symptoms and effects

Symptoms Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion

or loss of coordination. May cause skin and eye irritation. Will cause gastrointestinal tract

irritation.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water fog or fine spray, carbon dioxide, dry chemical, foam.

Unsuitable Extinguishing Media Water jet.

## **Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Vapor concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame, or high intensity heat source.

**Hazardous Combustion Products** Hydrogen chloride, trace amounts of phosgene, chlorine, and carbon monoxide.

**Sensitivity to Static Discharge** Take precautionary measures against static discharge.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Remove all

sources of ignition. The wet contaminated surface may be slippery.

Environmental Precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

Methods for Containment Contain and collect spillage with non-combustible absorbent material. (e.g. sand, earth.

diatomaceous earth, vermiculite).

Methods for Clean-Up

Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material

and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste

disposal, see section 13 of the SDS. Wash spill area with a mild detergent.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special

instructions before use. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use only in well-ventilated areas. Keep containers closed when not in use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked

up. Protect from damp. Store away from heat and incompatible materials.

Incompatible Materials Oxidizing agents. Strong bases. Zinc powders. Aluminum powders. Magnesium powders.

Potassium. Sodium.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetrahydrofuran	STEL: 100 ppm	TWA: 200 ppm	IDLH: 2000 ppm
109-99-9	TWA: 50 ppm	TWA: 590 mg/m <sup>3</sup>	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 590 mg/m <sup>3</sup>	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 735 mg/m <sup>3</sup>
		(vacated) STEL: 735 mg/m <sup>3</sup>	
Dichloromethane	TWA: 50 ppm	TWA: 25 ppm	IDLH: 2300 ppm
75-09-2		(vacated) TWA: 500 ppm	
		(vacated) STEL: 2000 ppm 5	
		min in any 3 h	
		(vacated) Ceiling: 1000 ppm	
		STEL: 125 ppm see 29 CFR	
		1910.1052	

## Appropriate engineering controls

Engineering Controls Good ventilation is required. Maintain eye wash fountain and quick-drench facilities in work

area.

#### Individual protection measures, such as personal protective equipment

**Eve/Face Protection** Splash goggles or safety glasses.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Revision Date: 03-Dec-2014 CIP-015 - SC 325

Ensure adequate ventilation, especially in confined areas. Use NIOSH approved **Respiratory Protection** 

air-purifying respirator if the potential to exceed established exposure limits exists.

General Hygiene Considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before

eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before

@ 25 °C (77 °F)

reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Liquid

Clear colorless liquid **Appearance** Odor Ether-like Color Clear Colorless **Odor Threshold** Not determined

Values Remarks • Method Property

Not determined Hq

**Melting Point/Freezing Point** Not determined 66 °C / 151 °F **Boiling Point/Boiling Range** Flash Point -14 / 6.8 **Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined

**Upper Flammability Limits** 11.8% **Lower Flammability Limit** 2.0%

**Vapor Pressure** 129 mmHg @ 20°C (68°F) **Vapor Density** 2.5 (Air=1)

Specific Gravity 88.0 **Water Solubility** 1.3%

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** 321 °C / 610 **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dvnamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Under normal conditions of storage and use, hazardous polymerization will not occur.

#### **Conditions to Avoid**

Heat, flames and sparks.

#### **Incompatible Materials**

Oxidizing agents. Strong bases. Zinc powders. Aluminum powders. Magnesium powders. Potassium. Sodium.

## **Hazardous Decomposition Products**

None known based on information supplied.

Revision Date: 03-Dec-2014 CIP-015 - SC 325

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

Causes serious eye irritation. **Eye Contact** 

**Skin Contact** Causes skin irritation.

Inhalation May be harmful if inhaled. May cause irritation to the mucous membranes and upper

respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes. May be harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dichloromethane	> 2000 mg/kg (Rat)	-	= 76000 mg/m <sup>3</sup> (Rat) 4 h
75-09-2			

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

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

Carcinogenicity May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Tetrahydrofuran 109-99-9	A3			
Dichloromethane 75-09-2	A3	Group 2B	Reasonably Anticipated	Х

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Other Adverse Effects In confined or poorly ventilated areas, vapors can readily accumulate and can cause

unconsciousness and death. Excessive exposure may cause irritation to upper respiratory tract (nose and throat). May cause carboxyhemoglobinemia, thereby impairing the blood's ability to transport oxygen. Minimal anesthetic or narcotic effects may be seen in the range of 500-1000 ppm methylene chloride. Higher levels over 1000 ppm can cause dizziness, drunkenness, and as low as 10,000 ppm, unconsciousness and death. These high levels

may also cause cardiac arrhythmias (irregular heartbeats).

#### **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tetrahydrofuran 109-99-9		1970 - 2360: 96 h Pimephales promelas mg/L LC50 flow-through 2700 - 3600: 96 h Pimephales promelas mg/L LC50 static	•	
Dichloromethane 75-09-2	500: 96 h Pseudokirchneriella subcapitata mg/L EC50 500: 72 h Pseudokirchneriella subcapitata mg/L EC50	140.8 - 277.8: 96 h Pimephales promelas mg/L LC50 flow-through 262 - 855: 96 h Pimephales promelas mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 static 193: 96 h Lepomis macrochirus mg/L LC50 flow-through	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50

## Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

## **Mobility**

Chemical Name	Partition Coefficient
Tetrahydrofuran 109-99-9	0.45
Dichloromethane 75-09-2	1.25

## Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## **US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Tetrahydrofuran 109-99-9				U213
Dichloromethane 75-09-2	U080	Included in waste streams: F001, F002, F024, F025, F039, K009, K010, K156, K157, K158		U080

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Dichloromethane 75-09-2	Organic Compounds Category I - Volatiles		Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Tetrahydrofuran 109-99-9	Toxic Ignitable
Dichloromethane 75-09-2	Toxic

## 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s. (Tetrahydrofuran, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

Reportable Quantity (RQ) 1000 lbs for Dichloromethane and Tetrahydrofuran

IATA

UN/ID No UN1992

Proper Shipping Name Flammable liquid, toxic, n.o.s. (Tetrahydrofuran, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

**IMDG** 

UN/ID No UN1992

**Proper Shipping Name** Flammable liquid, toxic, n.o.s. (Tetrahydrofuran, Dichloromethane)

Hazard Class 3
Subsidiary Hazard Class 6.1
Packing Group II

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Tetrahydrofuran	Present	Х		Present		Present	Х	Present	Х	Х
Dichloromethane	Present	Х		Present		Present	Х	Present	Х	Χ

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Tetrahydrofuran	1000 lb		RQ 1000 lb final RQ
109-99-9			RQ 454 kg final RQ
Dichloromethane	1000 lb 1 lb		RQ 1000 lb final RQ
75-09-2			RQ 454 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ

## SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Dichloromethane - 75-09-2	75-09-2	40-60	0.1

#### **CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Dichloromethane		X	X	

## US State Regulations

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Dichloromethane - 75-09-2	Carcinogen	

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetrahydrofuran 109-99-9	X	X	X
Dichloromethane 75-09-2	X	X	Х

## **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards210Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection210Not determined

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#### **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.

**End of Safety Data Sheet**