

Safety Data Sheet

SC-201

Issue Date: May, 2012 Revision Date: May, 2019 Version: 2

1. IDENTIFICATION

Product Identifier

Product Name SC 201

Other means of identification

SDS # CIP-010

UN/ID No UN2056

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 Etheral

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

Signal Word

Danger

Hazard Statements

H302: Harmful if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H351: Suspected of causing cancer

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness

H225: Highly flammable liquid and vapor



Precautionary Statements - Prevention

P201: Obtain special instructions before use

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

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking

P233: Keep container tightly closed

P235: Keep cool

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P264: Wash face, hands and any exposed skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

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

P280: Wear protective gloves/protective clothing/eye protection/face protection

P281: Use personal protective equipment as required

Precautionary Statements - Response

P308: If exposed or concerned: Get medical advice/attention

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

P337+P313: If eye irritation persists: Get medical advice/attention.

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

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

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P310+P330+P331: Do not induce vomiting

Rinse mouth

P370+P378: IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

P405: Store locked up

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

Precautionary Statements - Disposal

P501: Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Tetrahydrofuran	109-99-9	90-100

^{**}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 irritation develops or persists seek medical attention.

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

Foam, Dry chemical, Carbon dioxide (CO2).

Unsuitable Extinguishing Media Water jet.

Specific Hazards Arising from the Chemical

Vapors may travel to source of ignition and flash back. Highly flammable liquid and vapor. May form explosive peroxides.

Hazardous Combustion Products Toxic fumes may be released. Forms peroxides of unknown stability.

Sensitivity to Static Discharge Take precautionary measures against static discharge. Flammable mixtures of this product

are readily ignited even by 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-UpUse 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. Do not eat, drink or smoke when handling this product. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Use only in well-ventilated areas. Keep containers closed

when not in use. Keep cool.

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 Lithium aluminum hydride, strong oxidizers and potassium hydroxide. Will attack some

forms of plastics, rubbers and coatings. Strong oxidizing agents.

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 ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 590 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 735 mg/m ³
		(vacated) STEL: 735 mg/m ³	

Appropriate engineering controls

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

area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Splash goggles or safety glasses.

Skin and Body ProtectionWear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

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

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

reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Clear colorless liquid Odor
Color Clear Colorless Odor Threshold

Property Values Remarks • Method

pH 7.0

 Melting Point/Freezing Point
 -108.5 °C / -162 °

 Boiling Point/Boiling Range
 66 °C / 151 °F

 Flash Point
 -14 °C / 6.8 °F

Evaporation Rate 8.0

Flammability (Solid, Gas)

Not determined

Upper Flammability Limits 11.8%

Lower Flammability Limit2.0%Vapor Pressure129 mmHgVapor Density2.5Specific Gravity0.88

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

(butyl acetate = 1)

Etheral

Not determined

@ 20°C (68°F) (Air=1)

@ 20°C (68°F)

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 Hazardous polymerization may occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Lithium aluminum hydride, strong oxidizers and potassium hydroxide. Will attack some forms of plastics, rubbers and coatings. Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Irritating to skin.

Inhalation May cause irritation to the mucous membranes and upper respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes. Harmful if swallowed.

Component Information

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 Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Tetrahydrofuran	A3			
109-99-9				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

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

Numerical measures of toxicity

Product Information

Oral LD50 1650 mg/kg (rat)

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		1970 - 2360: 96 h		
109-99-9		Pimephales promelas mg/L		
		LC50 flow-through 2700 -		
		3600: 96 h Pimephales		
		promelas mg/L LC50 static		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Tetrahydrofuran	0.45
109-99-9	

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				U213
109-99-9				

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Tetrahydrofuran	Toxic
109-99-9	Ignitable

14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

DOT

UN/ID No UN2056

Proper Shipping Name Tetrahydrofuran

Hazard Class 3
Packing Group II

Reportable Quantity (RQ) 1000 lbs

IATA

<u>UN/ID No</u> UN2056

Proper Shipping Name Tetrahydrofuran

Hazard Class 3
Packing Group II

IMDG

UN/ID No UN2056

Proper Shipping Name Tetrahydrofuran

Hazard Class 3
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	Χ	Present	Χ	Х

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

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardYes

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetrahydrofuran	X	X	X
109-99-9			

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards232Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection232Not determined

Issue Date:15-May-2012Revision Date:November, 2019Revision Note:Added GHS codes

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