Material Safety Data Sheet: CHEMSTRIP AEROSOL

Supercedes Date 11/01/2005 **Issuing Date** 12/18/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSTRIP AEROSOL
Product Code 5010

Recommended Use Stripping solution
Chemical Nature Halogenated hydrocarbon Solvent mixture

Information on Manufacturer

CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Emergency Telephone Number

CHEMTREC ? 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger
Extremely flammable
Harmful if inhaled
Severe skin irritation
Severe eye irritation
May cause allergic skin reaction
Harmful or fatal if swallowed

Color Colorless **Physical State** Liquid **Odor** Slight chlorine Solvent

Potential Health Effects

Principle Route of Exposure Inhalation, Skin contact, Eye contact.

Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

Eyes Severe eye irritant.

Skin Severe skin irritant. May be absorbed through the skin in harmful amounts. May cause allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Inhalation Irritating to respiratory system. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis . Irregular cardiac activity. Blood disorder may occur after prolonged inhalation.

Ingestion Irritating to mucous membranes. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Blood disorder may occur after ingestion. Acidosis. Use of alcoholic beverages may enhance toxic effects.

Chronic Effects Causes adverse cardiovascular effects. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Skin sensitization. Blood disorder may occur after prolonged inhalation. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis . May cause cardiac arrhythmia.

Target Organ Effects Blood, Central nervous system, Central Vascular System, Gastrointestinal tract, Kidney, Liver, Lungs, Respiratory system, spleen, Lymphatic System, Eyes, Bone Marrow, Heart.

Aggravated Medical Conditions Gastrointestinal tract. Kidney disorders. Liver disorders. Skin disorders. Respiratory disorders. Blood disorders. Neurological disorders.

Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Methyl alcohol	67-56-1
Propane	74-98-6
Methylene chloride	75-09-2
Propylene oxide	75-56-9
Paraffin wax	8002-74-2
1-Methyl-2-pyrrolidone	872-50-4
Butane	106-97-8
2-Butoxyethanol	111-76-2
Petroleum distillates, hydrotreated light	64742-47-8

4. FIRST AID MEASURES

General Advice Do not breathe vapors or spray mist . Do not get in eyes, on skin, or on clothing.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Notes to Physician Aspiration hazard if swallowed - can enter lungs and cause damage. May cause cardiac arrhythmia. Acidosis.

5. FIRE-FIGHTING MEASURES

Flash Point 100?F / 38?C **Method** Seta closed cup

Autoignition Temperature No information available

Flammability Limits in Air % Mixture **Upper** 36 **Lower** 0.8

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors . Vapors may ignite and explode. Material can create slippery conditions. Flame extension: 30 inches / 76 cm and Burnback: 0 inches / 0 cm .

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.

Aerosol Level (NFPA 30B) - 1

NFPA **Health** 3 **Flammability** 4 **Instability** 0

HMIS **Health** 3 **Flammability** 4 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)

Methods for Cleaning Up Pick up and transfer to properly labeled containers .

Neutralizing Agent Not applicable

7. HANDLING AND STORAGE

Handling Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist . Do not get in eyes, on skin, or on clothing.

Storage Keep away from open flames, hot surfaces and sources of ignition.

Storage Temperature **Minimum** 35?F / 2?C **Maximum** 100?F / 38?C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Methyl alcohol	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m^3	IDLH: 6000 ppm STEL 250 ppm STEL 325 mg/m^3 TWA: 200 ppm TWA: 260 mg/m^3
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m^3	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Propylene oxide	TWA: 2 ppm	TWA: 100 ppm TWA: 240 mg/m^3	IDLH: 400 ppm
Paraffin wax	TWA: 2 mg/m^3	no data available	TWA: 2 mg/m^3
1-Methyl-2-pyrrolidone	No data available	no data available	no data available
Butane	TWA: 1000 ppm	no data available	TWA: 800 ppm TWA: 1900 mg/m^3
2-Butoxyethanol	TWA: 20 ppm	TWA: 240 mg/m^3 TWA: 50 ppm Skin	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
Petroleum distillates, hydrotreated light	No data available	no data available	no data available

Engineering Measures Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin Protection Impervious gloves. Impervious clothing.

Respiratory Protection Use NIOSH approved respiratory protection.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective gloves/clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Slightly Viscous
Color	Colorless	**Odor**	Slight chlorine Solvent
Appearance	Cloudy	**pH**	Not applicable
Specific Gravity	1.23	**Bulk Density**	10.26
Evaporation Rate	54.9	**Percent Volatile (Volume)**	96
VOC Content (%)	28	**Vapor Pressure**	1221 mmHg @ 70 ?F
Vapor Density	1.9	**Solubility**	Slightly soluble
Boiling Point/Range	105?F / 41?C		

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur .

Conditions to Avoid Keep away from open flames, hot surfaces, and sources of ignition.

Incompatible Products Strong oxidizing agents. Bases. Amines. Alcohols. Acids. Powdered metals. Phosphorus compounds.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides . Aldehydes . Ketones. Hydrogen chloride gas . Chlorine. Phosgene. Organic acids.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available

Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h	no data available	no data available
Propane	no data available	no data available	658 mg/L (Rat) 4 h	no data available	no data available
Methylene chloride	2000 mg/kg (Rat)	no data available	76000 mg/m^3 (Rat) 4 h	no data available	no data available
Propylene oxide	520 mg/kg (Rat)	no data available	no data available	no data available	no data available
Paraffin wax	3750 mg/kg (Rat)	3600 mg/kg (Rabbit)	no data available	no data available	no data available
1-Methyl-2-pyrrolidone	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h	no data available	no data available
Butane	no data available	no data available	658 mg/L (Rat) 4 h	no data available	no data available
2-Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat)	no data available	no data available	no data available

Petroleum distillates, hydrotreated light	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	5.2 mg/L (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methyl alcohol	no data available	no data available	no data available	no data available	skin, eyes, CNS, GI tract, respiratory system
Propane	no data available	no data available	no data available	no data available	CNS, liver, heart
Methylene chloride	X	Cardiovascular	X	Female reproductive toxin.	skin, CVS, eyes, CNS (in animals: lung, liver, salivary and mammary gland tumors), Blood, Heart, Kidney
Propylene oxide	no data available	X	no data available	no data available	Bone marrow, eyes, skin, respiratory system (in animals: nasal tumors)
Paraffin wax	no data available	no data available	no data available	no data available	eyes, skin, respiratory system
1-Methyl-2-pyrrolidone	no data available	no data available	no data available	no data available	no data available
Butane	no data available	no data available	no data available	no data available	CNS, liver, heart
2-Butoxyethanol	no data available	no data available	no data available	Male reproductive toxin.	liver, kidneys, lymphoid system, skin, blood, eyes, respiratory system, CNS, hematopoietic system, spleen
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	CNS, cardiovascular system

Carcinogenicity .

Component	ACGIH	IARC
Methyl alcohol	not applicable	not applicable
Propane	not applicable	not applicable
Methylene chloride	A3	Group 2B
Propylene oxide	A3	Group 2B
Paraffin wax	not applicable	not applicable
1-Methyl-2-pyrrolidone	not applicable	not applicable
Butane	not applicable	not applicable
2-Butoxyethanol	A3	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable

Component	NTP	OSHA	Other
Methyl alcohol	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable
Methylene chloride	Reasonably Anticipated	X	not applicable
Propylene oxide	Reasonably Anticipated	X	not applicable
Paraffin wax	not applicable	not applicable	not applicable
1-Methyl-2-pyrrolidone	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable
2-Butoxyethanol	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methyl alcohol	no data available	LC50= 13200 mg/L Oncorhynchus mykiss 96 h LC50= 28100 mg/L Pimephales promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	no data available	-0.77
Propane	no data available	no data available	no data available	no data available	2.3
Methylene chloride	EC50> 660 mg/L Selenastrum capricornutum 96 h	LC50= 10.95 mg/L Oncorhynchus mykiss 96 h LC50= 193 mg/L Lepomis macrochirus 96 h LC50= 193 mg/L Pimephales promelas 96 h LC50= 310 mg/L Pimephales promelas 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 = 140 mg/L 48 h	1.25
Propylene oxide	EC50= 240 mg/L Selenastrum capricornutum 96 h	LC50= 215 mg/L Lepomis macrochirus 96 h	EC50 = 3300 mg/L 160 min	EC50 = 350 mg/L 48 h	0.08
Paraffin wax	no data available	no data available	no data available	no data available	N/A
1-Methyl-2-pyrrolidone	EC50> 500 mg/L Scenedesmus subspicatus 72 h	LC50= 1072 mg/L Pimephales promelas 96 h LC50= 1400 mg/L Poecilia reticulata 96 h LC50= 4000 mg/L Leuciscus idus 96 h LC50= 832 mg/L Lepomis macrochirus 96 h	no data available	EC50 = 3135 mg/L 96 h EC50 = 4897 mg/L 48 h	-0.46
Butane	no data available	no data available	no data available	no data available	2.89
2-Butoxyethanol	no data available	LC50= 1490 mg/L Lepomis macrochirus 96 h	no data available	LC50 1698 - 1940 mg/L 24 h EC50 = 1720 mg/L 24 h	0.81
Petroleum distillates, hydrotreated light	no data available	LC50= 1740 mg/L Lepomis macrochirus 96 h LC50= 45 mg/L Pimephales promelas 96 h	no data available	LC50 = 4720 mg/L 96 h	N/A

Persistence and Degradability No information available
Bioaccumulation No information available
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations
Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT DOT
Proper Shipping Name Consumer commodity
Hazard Class ORM-D
Description Consumer commodity ,ORM-D,

TDG
Proper shipping name Aerosols
Hazard Class 2.1
UN-No UN1950
Description AEROSOLS,2.1,UN1950, LTD QTY

ICAO

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Shipping Description	Aerosols,UN1950, LTD QTY

IATA

UN-No	UN1950
Proper Shipping Name	Aerosols, flammable
Hazard Class	2.1
ERG Code	10L
Shipping Description	UN1950,Aerosols, flammable,2.1, LTD QTY

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN1950
EmS No.	F-D, S-U
Shipping Description	UN1950, Aerosols,2, LTD QTY

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

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 and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	1-5	1.0
Methylene chloride	75-09-2	60-100	0.1
Propylene oxide	75-56-9	1-5	0.1
1-Methyl-2-pyrrolidone	872-50-4	1-5	1.0
2-Butoxyethanol	111-76-2	1-5	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

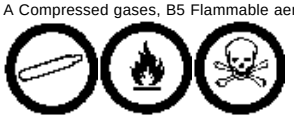
Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	Not applicable
Propane	Not applicable	Not applicable
Methylene chloride	1000 lb	Not applicable
Propylene oxide	100 lb	= 10000 lb TPQ
Paraffin wax	Not applicable	Not applicable
1-Methyl-2-pyrrolidone	Not applicable	Not applicable
Butane	Not applicable	Not applicable
2-Butoxyethanol	Not applicable	Not applicable
Petroleum distillates, hydrotreated light	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases, B5 Flammable aerosol, D1B Toxic materials .



16. OTHER INFORMATION

Prepared By	Mike McDowell
Supercedes Date	11/01/2005
Issuing Date	12/18/2008
Reason for Revision	No information available
Glossary	No information available
List of References	No information available

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