Safety Data Sheet: CHEMSTRIP

Supercedes Date 01/04/2012 **Issuing Date** 11/12/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSTRIP
Recommended use Stripping solution
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 0007
Chemical nature Solvent mixture
Emergency Telephone Number

Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Pale yellow **Physical State** Liquid **Odor** solvent

GHS Classification

Physical Hazards
None

Health Hazard

Aspiration Toxicity	Category 2
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Reproductive Toxicity	Category 2
Carcinogenicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H331 - Toxic if inhaled
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe mist
P271 - Use in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P362 - Take off contaminated clothing and wash before reuse
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 attention.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents and container in accordance with applicable regulations.

3 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Methylene chloride	75-09-2	60-100

Isopropyl alcohol	67-63-0	5-10
Methyl alcohol	67-56-1	1-5
Fatty acids, tallow, potassium salts	61790-32-7	1-5
Paraffin wax	8002-74-2	1-5

4. FIRST AID MEASURES

General advice Avoid breathing vapors or mists. Avoid contact with skin, eyes and 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 immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth.

Notes to physician Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause cardiac arrhythmia. Acidosis.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup

Flammability Limits in Air % Mixture. **Upper** 36 **Lower** 2.0

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

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.

NFPA **Health** 2 **Flammability** 1 **Instability** 0

HMIS **Health** 2 **Flammability** 1 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. 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 Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Storage Temperature **Minimum** 36 °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
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	IDLH: 2000 ppm STEL 500 ppm STEL 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3
Methyl alcohol	TWA: 200 ppm Skin	TWA: 200 ppm TWA: 260 mg/m^3	IDLH: 6000 ppm STEL 250 ppm

	STEL: 250 ppm		STEL 325 mg/m^3 TWA: 200 ppm TWA: 260 mg/m^3
Fatty acids, tallow, potassium salts	No data available	No data available	No data available
Paraffin wax	TWA: 2 mg/m^3	No data available	TWA: 2 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Semi-viscous
Color	Colorless - Pale yellow	**Odor**	solvent
Odor Threshold	Not applicable	**Appearance**	Transparent - Slightly hazy
pH	9.7	**Specific Gravity**	1.2
Evaporation Rate	22.7 (air = 1.0)	**Percent Volatile (Volume)**	93.8
VOC Content (%)	9.8	**VOC Content (g/L)**	117
Vapor Pressure	238 mmHg @ 70°F	**Vapor Density**	2.9 (Air = 1.0)
Solubility	Negligible	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	106 °F / 41 °C	**Flammability (solid, gas)**	No data available
Flash Point	> 201 °F / > 94 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	**Upper** 36 **Lower** 2.0	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid None known

Incompatible Products Strong oxidizing agents, Reducing agents, Strong acids and strong bases, Powdered metals.

Hazardous Decomposition Products Carbon oxides, Hydrogen chloride gas.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist 2,141.57

Vapor No information available

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

Primary Routes of Entry Skin Absorption, Inhalation.

Acute Effects

Eyes Severe irritation.

Skin Severe irritation. May be absorbed through the skin in harmful amounts. Substance may be absorbed through the skin which can contribute to damage to the optic nerve resulting in permanent vision changes, loss of vision, or total blindness.

Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Blood disorder may occur after ingestion. Acidosis. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. Harmful if swallowed.

Chronic Toxicity Inhalation of vapors in high concentration can cause narcotic effects and metabolic acidosis. Risk of

serious damage to the lungs (by inhalation). Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Blood disorder may occur after prolonged inhalation. Causes adverse cardiovascular effects. May cause cardiac arrhythmia. Contains a known or suspected carcinogen. Suspect reproductive hazard - contains material which may injure unborn child.

Target Organ Effects Central Nervous System, Cardiovascular system, Respiratory system, Reproductive System, Liver, Kidney, Blood, Heart, Gastrointestinal tract, Spleen, Pancreas, Skin, Central nervous system, Central Vascular System.

Aggravated Medical Conditions Respiratory disorders, Skin disorders, Central nervous system, Cardiovascular, Kidney disorders, Liver disorders, Heart.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methylene chloride	> 2000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Isopropyl alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available
Methyl alcohol	= 5628 mg/kg (Rat)	no data available	= 83.2 mg/L (Rat) 4 h	no data available	no data available
Fatty acids, tallow, potassium salts	no data available	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

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methylene chloride	no data available	no data available	no data available	no data available	skin, CVS, eyes, CNS (in animals: lung, liver, salivary and mammary gland tumors)
Isopropyl alcohol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin, liver, kidney, CNS
Methyl alcohol	no data available	no data available	x	no data available	eyes, CNS, skin, GI tract, respiratory system, kidney, spleen, liver, blood, pancreas, heart, reproductive system
Fatty acids, tallow, potassium salts	no data available	no data available	no data available	no data available	no data available
Paraffin wax	no data available	no data available	no data available	no data available	eyes, respiratory system, skin

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Methylene chloride	A3	Group 2B	Reasonably Anticipated	X	not applicable
Isopropyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Methyl alcohol	not applicable	not applicable	not applicable	not applicable	not applicable
Fatty acids, tallow, potassium salts	not applicable	not applicable	not applicable	not applicable	not applicable
Paraffin wax	not applicable	not applicable	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
Methylene chloride	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h EC50 > 500 mg/L Pseudokirchneriella subcapitata 72 h	LC50 140.8 - 277.8 mg/L Pimephales promelas 96 h LC50 262 - 855 mg/L Pimephales promelas 96 h LC50 = 193 mg/L Lepomis macrochirus 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 1532 - 1847 mg/L 48 h EC50= 190 mg/L 48 h	1.25
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50= 13299 mg/L 48 h	0.05
Methyl alcohol	no data available	LC50 = 28200 mg/L Pimephales promelas 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 19500 - 20700 mg/L	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	no data available	-0.77

		Oncorhynchus mykiss 96 h LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h LC50 13500 - 17600 mg/L Lepomis macrochirus 96 h			
Fatty acids, tallow, potassium salts	no data available	no data available	no data available	no data available	N/A
Paraffin wax	no data available	no data available	no data available	no data available	N/A

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

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT
Proper Shipping Name Dichloromethane, Solution
Hazard Class 6.1
UN-No UN1593
Packing Group III
Reportable Quantity (RQ) Dichloromethane RQ = 1180.61
Description UN1593, Dichloromethane, Solution,6.1, PG III

TDG
Hazard Class 6.1
UN-No UN1593
Packing Group III

ICAO ICAO
UN-No UN1593
Proper Shipping Name Dichloromethane, Solution
Hazard Class 6.1
Packing Group III
Shipping Description UN1593, Dichloromethane,Solution,6.1,PG III

IATA IATA
UN-No UN1593
Proper Shipping Name Dichloromethane, Solution
Hazard Class 6.1
Packing Group III
ERG Code 6L
Shipping Description UN1593,Dichloromethane, Solution,6.1,PG III

IMDG/IMO
Proper Shipping Name Dichloromethane, Solution
Hazard Class 6.1
UN-No UN1593
Packing Group III
EmS No. F-A, S-A
Shipping Description UN1593, Dichloromethane,Solution, 6.1,PG III

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 Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Methylene chloride	75-09-2	60-100	0.1
Isopropyl alcohol	67-63-0	5-10	1.0
Methyl alcohol	67-56-1	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	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb	Not applicable
Isopropyl alcohol	Not applicable	Not applicable
Methyl alcohol	5000 lb	Not applicable
Fatty acids, tallow, potassium salts	Not applicable	Not applicable
Paraffin wax	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By Sarah Williamson
Supercedes Date 01/04/2012
Issuing Date 11/12/2013
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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