Safety Data Sheet: NF-2000

Supercedes Date 12/28/2016 Issuing Date 05/15/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Formula Code NF-2000 Recommended use Solvent degreaser Information on Manufacturer CERTIFIED LABS, DIV. OF NCH CORP.

BOX 152170

IRVING, TEXAS 75015

Product Code 0936
Chemical nature Solvent mixture
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

2. HAZARD IDENTIFICATION

 Color Colorless
 Physical state Liquid
 Odor Ether-like

Category 4

Category 2

Category 1

Category 2A

Category 1B Category 3

Category 2

GHS

Classification

Physical Hazards

None

Health Hazard

Acute Inhalation Toxicity - Gas Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

Skin sensitization Carcinogenicity

Specific target organ systemic toxicity (single exposure) Specific target organ toxicity (repeated exposure)

Other hazards

None

Labeling Signal Word





Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

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

P280 - Wear protective gloves, protective clothing and eye protection.

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

P260 - Do not breathe vapors or mists.

P271 - Use in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P362 - Take off contaminated clothing and wash before reuse.

 $\mbox{P305} + \mbox{P351} + \mbox{P338}$ - 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.

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.

P308 + P313 - IF exposed or concerned, get medical attention

P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Tetrachloroethylene	127-18-4	80-100
Methylene chloride	75-09-2	10-30

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

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 Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing

and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing

before re-use.

Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial

respiration. Get medical attention immediately.

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

occur. Rinse mouth.

Notes to physician May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

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

Flammability Limits in Air %: Mixture. Upper: 23 Lower: 13

Suitable Extinguishing Media

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

Specific hazards arising from the chemical

Material can create slippery conditions. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Tetrachloroethylene	TWA: 25 ppm	TWA: 100 ppm	150 ppm
	STEL: 100 ppm	Ceiling: 200 ppm	
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm	2300 ppm
		STEL: 125 ppm	
Propylene oxide	TWA: 2 ppm	TWA: 100 ppm	400 ppm
		TWA: 240 mg/m ³	
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	6000 ppm
	Skin	TWA: 260 mg/m ³	STEL 250 ppm
	STEL: 250 ppm		STEL 325 mg/m ³
			TWA: 200 ppm
			TWA: 260 mg/m ³
Chloroform	TWA: 10 ppm	Ceiling: 50 ppm	500 ppm

		Ceiling: 240 mg/m ³	STEL 2 ppm STEL 9.78 mg/m ³
Methyl chloride	TWA: 50 ppm Skin STEL: 100 ppm	TWA: 100 ppm Ceiling: 200 ppm	2000 ppm
Ethyl chloride	TWA: 100 ppm Skin	TWA: 1000 ppm TWA: 2600 mg/m ³	3800 ppm
Vinyl chloride	TWA: 1 ppm	TWA: 1 ppm STEL: 5 ppm	No data available

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Engineering control measures should be used in preference to personnel protective equipment wherever possible.

Personal Protective Equipment

Eye/Face Protection

Skin Protection Wear suitable protective clothing, Impervious gloves.

Tightly fitting safety goggles.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid Viscosity Non viscous Colorless Color Odor Ether-like **Odor Threshold** Not applicable **Appearance** Transparent Specific Gravity На Not applicable 1.58 **Evaporation Rate** 5.2 (Butyl acetate=1) Percent Volatile (Volume) 100 **VOC Content (%)** VOC Content (g/L) 0.4 0

Vapor Density Vapor pressure 63.2 mmHg @ 70°F 3.2 (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** 208 °F / 98 °C Flammability (solid, gas) No data available Flash Point > 201 °F / > 94 °C Method Tag closed cup

Autoignition Temperature No information available.

Flammability Limits in Air %: Mixture Upper: 23 Lower: 13

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid Heating can release hazardous gases.

Incompatible Products Strong oxidizing

agents, Acids, Bases, Aluminum, Oxygen, Peroxides, Reactive

metals, Alkali metals, Potassium, Magnesium, Zinc.

Decomposition TemperatureNo data available

Hazardous Decomposition Products Carbon oxides, Hydrogen chloride gas, Chlorine, Phosgene.

Possibility of Hazardous Reactions

None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available Dermal LD50 No information available

Inhalation LC50

Gas No information available
Mist No information available
Vapor No information available

Principle Route of Exposure Inhalation, Skin contact, Eye contact.
Primary Routes of Entry Skin contact, Skin Absorption.

Acute Effects:

Eyes Severe eye irritant.

Skin Severe skin irritant. May cause sensitization by skin contact.

Inhalation Irritating to mucous membranes. 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. Irregular cardiac

activity. May cause cardiac arrhythmia.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity Liver and kidney injuries may occur. Prolonged skin contact may defat the skin and produce

dermatitis. Contains a known or suspected carcinogen. May cause irregular heartbeats, especially under conditions of stress. Excessive exposure may cause carboxyhemoglobinemia, thereby

impairing the blood's ability to transport oxygen.

Target Organ Effects: Aggravated Medical Conditions Respiratory system, Central nervous system, Kidney, Liver, Skin, Eyes, Lungs. Respiratory disorders, Skin disorders, Kidney disorders, Liver disorders, Blood

disorders, Neurological disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Tetrachloroethylene 127-18-4	= 2629 mg/kg (Rat)	> 3228 mg/kg (Rabbit)	= 27.8 mg/L (Rat) 4 h	No data available	No data available
Methylene chloride 75-09-2	= 1600 mg/Kg (rat)	no data available	= 53 mg/L (Rat) 6 h	No data available	No data available

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tetrachloroethylene 127-18-4	No data available	Skin sensitization	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system; Liver; Kidney
Methylene chloride 75-09-2	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes

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

Chemical name	ACGIH	IARC	NTP	OSHA	Other
Tetrachloroethylene 127-18-4	А3	Group 2A	Not applicable	Х	Not applicable
Methylene chloride 75-09-2	A3	Group 2A	Reasonably Anticipated	Х	Not applicable

12. ECOLOGICAL INFORMATION

Product Information Component Information No information available.

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficien
Tetrachloroethylene	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h	LC50 12.4 - 14.4 mg/L Pimephales promelas 96 h LC50 8.6 - 13.5 mg/L Pimephales promelas 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 4.73 - 5.27 mg/L Oncorhynchus mykiss 96 h	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	6.1 - 9.0: 48 h Daphnia magna mg/L EC50 Static	2.88
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	1532 - 1847: 48 h Daphnia magna mg/L EC50 Static 190: 48 h Daphnia magna mg/L EC50	1.25

Persistence and Degradability Bioaccumulation

No information available. No information available. No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Mobility

Proper Shipping Name TOXIC LIQUIDS, ORGANIC, N.O.S.

Hazard Class 6.1 UN-No UN2810 Packing Group III

Reportable Quantity (RQ) Tetrachloroethylene, RQ kg = 53.65

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to DOT.

Description UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE),

MARINE POLLUTANT

TDG

TOXIC LIQUID, ORGANIC, N.O.S., Proper shipping name

Hazard Class 6.1 **UN-No** UN2810 **Packing Group** Ш

This product contains a chemical which is listed as a marine pollutant according to TDG. **Marine Pollutant**

Description UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE),

MARINE POLLUTANT

ICAO

UN-No UN2810

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class Packing Group

Shipping Description UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE,

TETRACHLOROETHYLENE),6.1,PG III

IATA

UN-No UN2810

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.

Hazard Class 6.1 **Packing Group**

UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE), 6.1, **Shipping Description**

IMDG/IMO

UN proper shipping name TOXIC, LIQUID, ORGANIC, N.O.S.

Hazard Class UN Number UN2810 **Packing Group** Ш

Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO Description

UN2810, TOXIC, LIQUID, ORGANIC, N.O.S., (DICHLOROMETHANE, TETRACHLOROETHYLENE),

MARINE POLLUTANT

15. REGULATORY INFORMATION

Inventories

TSCA Complies DSL Complies

U.S. Federal Regulations

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

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
Tetrachloroethylene	127-18-4	60-100	0.1

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Tetrachloroethylene	100 lb 1 lb	Not applicable
Methylene chloride	1000 lb 1 lb	Not applicable

16. OTHER INFORMATION

Prepared By Samantha Purvis **Supercedes Date** 12/28/2016 05/15/2019 **Issuing Date**

Reason for Revision No information available. No information available. Glossary List of References. No information available.

CERTIFIED LABS, DIV. OF NCH CORP.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such

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