

Safety Data Sheet: TERMI-KLEEN POWER

Supersedes Date 03/27/2014

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name TERMI-KLEEN POWER
Recommended use Cleaning agent Solvent
Information on Manufacturer
Partsmaster, Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code PMC60035
Chemical nature Solvent solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
800-336-0450

2. HAZARD IDENTIFICATION

Color Clear

Physical State Aerosol

Odor Solvent

GHS

Classification

Physical Hazards

Gases under pressure

Health Hazard

Aspiration Toxicity

Acute Dermal Toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Reproductive Toxicity

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

Other hazards

None

Category 1

Category 4

Category 2

Category 2

Category 1B

Category 3

Category 2

Labeling

Signal Word

DANGER



Hazard Statements

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H312 - Harmful in contact with skin

H360 - May damage fertility or the unborn child

H304 - May be fatal if swallowed and enters airways

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P201 - Obtain special instructions before use

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

P260 - Do not breathe vapor, mist or gas.

P271 - Use in a well-ventilated area.

P281 - Use personal protective equipment as required

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

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

P314 - Get medical attention/advice if you feel unwell

P322 - Specific measures (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P301+ P310 - IF SWALLOWED: Immediately call a physician

P331 - DO NOT induce vomiting

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

P362 - Take off contaminated clothing and wash before reuse

P332 + P313 - If skin irritation occurs, 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.

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.

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

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

P405 - Store locked up

P501 - Dispose of contents and container to an approved waste disposal plant.

2 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
n-Propyl bromide	106-94-5	60-100
Isopropanol	67-63-0	1-5
1,1,1,2-Tetrafluoroethane	811-97-2	1-5
Methyl perfluorobutyl ether	163702-07-6	1-5
Methyl perfluoroisobutyl ether	163702-08-7	1-5

4. FIRST AID MEASURES

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with plenty of water.
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 immediately. Never give anything by mouth to an unconscious person.
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Not applicable
Upper No data available		Lower	No data available

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

The product causes irritation of eyes, skin and mucous membranes. Flame extension: <0 inches / 0 cm and Burnback: 0 inch / 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 2
HMIS	Health 2

Flammability 1
Flammability 1

Instability 0
Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Take precautionary measures against static discharges.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment	Remove all sources of ignition. Soak up with inert absorbent material.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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).
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Always store material in its original container. Keep container tightly closed when not in use. Avoid breathing vapors or mists. Store in low humidity environment at ambient temperature. Keep sealed in original packing material until ready to use.			
Storage	Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep in an area equipped with sprinklers.			
Storage Temperature	Minimum	°F / °C	Maximum	°F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
n-Propyl bromide	TWA: 10 ppm	No data available	No data available
Isopropanol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m ³	2000 ppm STEL 500 ppm STEL 1225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Chemical goggles should be worn when handling .

Skin Protection

Wear gloves with appropriate chemical resistance.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

When using, do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Aerosol	Viscosity	Not relevant
Color	Clear	Odor	Solvent
Odor Threshold	Not applicable	Appearance	Clear
pH	Not applicable	Specific Gravity	1.290
Evaporation Rate	<1	Percent Volatile (Volume)	No information available
VOC Content (%)	75	Vapor Pressure	>100 mmHg @ 77°F
Vapor Density	>1	Solubility	Insoluble
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	No information available
Flammability (solid, gas)	No data available		
Flash Point	> 201 °F / > 94 °C	Method	Not applicable
Autoignition Temperature	No information available.		
Upper No data available Lower No data available			

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heating in air
Incompatible Products	Incompatible with oxidizing agents, Bases, Prolonged contact with reactive metals, such as Aluminum, Copper, Brass, Bronze, Chromium, Magnesium, Tin, Zinc, and alloys, can cause the formation of flammable Hydrogen gas which can form an explosive mixture with air.
Hazardous Decomposition Products	Carbon oxides, Fumes of bromine, Hydrogen bromide, Hydrogen fluoride, Traces of, Hydrogen chloride gas.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

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

Oral LD50	87920
Dermal LD50	1229
Inhalation LC50	
Gas	No information available
Mist	242
Vapor	290

Principle Route of Exposure

Skin contact, Inhalation.

Primary Routes of Entry

Inhalation

Acute Effects

Eyes

Causes eye irritation.

Skin

Causes skin irritation.

Inhalation

May cause irritation of respiratory tract.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion and subsequent vomiting of this product can lead to aspiration of the product into the lungs which can cause damage and may be fatal.

Chronic Toxicity

Suspect reproductive hazard - contains material which may injure unborn child. Liver and kidney injuries may occur. Repeated or prolonged exposure may cause central nervous system damage.

Target Organ Effects

Reproductive System, Central Vascular System, Respiratory system, Skin.

Aggravated Medical Conditions

Pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis, Allergies, Skin disorders.

Component Information**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
n-Propyl bromide	no data available	no data available	= 253 g/m ³ (Rat) 30 min	no data available	no data available
Isopropanol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h	no data available	no data available
1,1,1,2-Tetrafluoroethane	no data available	no data available	= 1500 g/m ³ (Rat) 4 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
n-Propyl bromide	no data available	no data available	no data available	X	CNS, PNS, heart, liver, kidney, respiratory system, reproductive system
Isopropanol	no data available	no data available	no data available	no data available	eyes, respiratory system, skin, liver, kidney, CNS
1,1,1,2-Tetrafluoroethane	no data available	no data available	no data available	no data available	Central nervous system, heart, eyes, skin, respiratory system

Carcinogenicity

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

Component	ACGIH	IARC	NTP	OSHA	Other
Isopropanol	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
n-Propyl bromide	no data available	LC50 = 67.3 mg/L Pimephales promelas 96 h	no data available	no data available	2.1
Isopropanol	EC50 > 1000 mg/L Desmodesmus subspicatus 72 h EC50 > 1000 mg/L Desmodesmus subspicatus 96 h	LC50 = 11130 mg/L Pimephales promelas 96 h LC50 = 9640 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50 13299 mg/L Daphnia magna 48 h	0.05

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with all Federal, state, and local regulations. .

Container Disposal

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

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer Commodity
Hazard Class ORM-D
Description Consumer Commodity, ORM-D

TDG

Hazard Class 2.1
UN-No UN1950

ICAO

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

IATA

UN-No UN1950
 Proper Shipping Name Aerosols, Flammable
 Hazard Class 2.1
 ERG Code 126
 Shipping Description UN1950, Aerosols, Flammable, LTD QTY

IMDG/IMO

Proper Shipping Name Aerosols, Flammable
 Hazard Class 2.1
 UN-No UN1950
 Shipping Description UN1950, Aerosols, Flammable, 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 Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Isopropanol	67-63-0	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

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
n-Propyl bromide	106-94-5	developmental toxicity male reproductive toxicity female reproductive toxicity

16. OTHER INFORMATION

Prepared By Christopher Drogin
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 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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