



## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 1 of 12

Revision date: 02.02.2018

### Buffsol Prebuff Cleaner

#### SECTION 1: Identification

##### Product identifier

**Product name:** Buffsol Prebuff Cleaner  
**Product code:** 816F/QT, 816F/GAL, 816F/5GAL  
**Additional information:** Rev. 8.0

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Cleaner  
**Uses advised against:** Not determined or not applicable.  
**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

**Manufacturer:**  
**United States**  
Tech International  
200 East Coshocton Street  
Johnstown, OH 43031  
1-740-967-9015

##### Emergency telephone number:

**United States**  
**CHEMTREC**  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1-703-527-3887

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Flammable liquids, category 2  
Skin irritation, category 2  
Aspiration hazard, category 1  
Specific target organ toxicity - single exposure, category 3, central nervous system  
Acute aquatic hazard, category 1  
Chronic aquatic hazard, category 1

##### Label elements

##### Hazard pictograms:



**Signal word:** Danger

##### Hazard statements:

H225 Highly flammable liquid and vapor.

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 2 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

H315 Causes skin irritation  
H304 May be fatal if swallowed and enters airways  
H336 May cause drowsiness or dizziness  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 Keep container tightly closed  
P240 Ground/bond container and receiving equipment  
P241 Use explosion-proof electrical/ventilating/light/equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P264 Wash skin thoroughly after handling  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 Use only outdoors or in a well-ventilated area  
P273 Avoid release to the environment  
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower  
P370+P378 In case of fire: Use agents recommended in section 5 for extinction  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P362 Take off contaminated clothing and wash before reuse  
P302+P352 If on skin: Wash with soap and water  
P332+P313 If skin irritation occurs: Get medical advice/attention  
P331 Do not induce vomiting  
P301+P310 If swallowed: Immediately call a poison center or doctor/physician  
P391 Collect spillage  
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P405 Store locked up  
P403+P233 Store in a well ventilated place. Keep container tightly closed  
P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

## SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 64742-89-8	Solvent naphtha (petroleum), light aliphatic	>65
CAS number: 142-82-5	Heptane	30-50
CAS number: 110-82-7	Cyclohexane	0.3-1.5
CAS number: 110-54-3	n-Hexane	<0.02

### Additional Information:

\*Cyclohexane and Heptane are components present in light naphtha, and because they present unique health and environmental hazards, they are listed separately here for clarity.

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 3 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

##### After skin contact:

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

##### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

##### Unsuitable extinguishing media:

Do not use a water stream as an extinguisher

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 4 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

### Special precautions:

- Shut off sources of ignition
- Carbon monoxide and carbon dioxide may form upon combustion
- Heating causes a rise in pressure, risk of bursting and combustion

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing
- Beware of vapors accumulating to form explosive concentrations
- Vapors can accumulate in low areas

### Environmental precautions:

- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Use spark-proof tools and explosion-proof equipment
- Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
- Dispose of contents / container in accordance with local regulations

### Reference to other sections:

- Not determined or not applicable.

## SECTION 7: Handling and storage

### Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Take precautionary measures against electrostatic discharges.
- Use only non-sparking tools.

### Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Cyclohexane	110-82-7	ACGIH TLV TWA: 100 ppm
	Heptane	142-82-5	ACGIH TLV TWA: 400 ppm
	Heptane	142-82-5	15-minute Short term exposure limit: 1000 mg/m <sup>3</sup>
	n-Hexane	110-54-3	ACGIH TLV TWA 50 ppm

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 5 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Cyclohexane	110-82-7	OSHA PEL TWA 300 ppm
	Cyclohexane	110-82-7	OSHA PEL TWA 1050 mg/m <sup>3</sup>
	Heptane	142-82-5	OSHA PEL TWA: 500 ppm
	Heptane	142-82-5	OSHA PEL TWA 2,000 mg/m <sup>3</sup>
	Solvent naphtha (petroleum), light aliphatic	64742-89-8	PEL 100 ppm (400 mg/m <sup>3</sup> )
	n-Hexane	110-54-3	OSHA PEL TWA 500 ppm
	n-Hexane	110-54-3	OSHA PEL TWA 1,800 mg/m <sup>3</sup>
NIOSH	Cyclohexane	110-82-7	NIOSH REL TWA 300 ppm
	Cyclohexane	110-82-7	NIOSH REL TWA 1050 mg/m <sup>3</sup>
	Heptane	142-82-5	NIOSH TWA: 350 mg/m <sup>3</sup> (85 ppm)
	Solvent naphtha (petroleum), light aliphatic	64742-89-8	IDLH: 1000 ppm [Naphtha (Coal tar)]
	Solvent naphtha (petroleum), light aliphatic	64742-89-8	REL (for up to a 10-hour workday during a 40-hour workweek): 100 ppm (400 mg/m <sup>3</sup> ) [Naphtha (Coal tar)]
	n-Hexane	110-54-3	NIOSH REL TWA 50 ppm
	n-Hexane	110-54-3	NIOSH REL TWA 180 mg/m <sup>3</sup>

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

### Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use explosion-proof ventilation equipment.

### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance in compliance with European Standard EN 374 and/or EN 420. For continuous contact, we recommend nitrile gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Always seek advice from glove suppliers.

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 6 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134.

### General hygienic measures:

- Avoid contact with skin, eyes and clothing.
- Wash hands before breaks and at the end of work.
- Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Clear colorless liquid
<b>Odor</b>	Hydrocarbon-like
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	96 - 116°C (205 - 241°F)
<b>Flash point (closed cup)</b>	-7 - 0°C (19 - 32°F)
<b>Evaporation rate</b>	3.2 (Butyl Acetate = 1)
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	8.0% (V)
<b>Lower flammability/explosive limit</b>	0.8% (V)
<b>Vapor pressure</b>	30.75 mmHg at 20°C (68°F)
<b>Vapor density</b>	3.3 (Air = 1.0)
<b>Density</b>	Not determined or not available.
<b>Relative density</b>	0.73 - 0.74 at 15.6°C (60.1°F) Reference substance: (Water = 1)
<b>Solubilities</b>	0.05 g/L in water.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	320°C
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.
<b>Kinematic viscosity</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

Excess heat, ignition source or flames.

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 7 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

### Incompatible materials:

None known.

### Hazardous decomposition products:

None known.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Skin corrosion/irritation

**Assessment:** Causes skin irritation

**Product data:**

No data available.

**Substance data:**

Name	Result
Cyclohexane	May cause skin irritation.
Heptane	Causes skin irritation
n-Hexane	Causes skin irritation.

### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Solvent naphtha (petroleum), light aliphatic	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 8 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

Name	Result
Solvent naphtha (petroleum), light aliphatic	The classification as a mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

Name	Result
n-Hexane	Suspected of damaging fertility or the unborn child.

### Specific target organ toxicity (single exposure)

**Assessment:** May cause drowsiness or dizziness

**Product data:**

No data available.

**Substance data:**

Name	Result
Cyclohexane	May cause drowsiness or dizziness.
n-Hexane	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

Name	Result
n-Hexane	Specific Target Organ Toxicity, Repeated Exposure - May cause damage to the nervous system through prolonged or repeated exposure via inhalation.

### Aspiration toxicity

**Assessment:** May be fatal if swallowed and enters airways

**Product data:**

No data available.

**Substance data:**

Name	Result
Solvent naphtha (petroleum), light aliphatic	May be fatal if swallowed and enters airways.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

No data available.

## SECTION 12: Ecological information



# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 9 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

### Acute (short-term) toxicity

**Assessment:** Very toxic to aquatic life

**Product data:** No data available.

**Substance data:**

Name	Result
Cyclohexane	Pimephales promelas (fathead minnow) - 4.53 mg/l
	Daphnia magna (Water flea) - 0.9 mg/l - 48 h
	Pseudokirchneriella subcapitata (green algae) - 3.4 mg/l - 72 h
Heptane	LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h
	EC50 - Daphnia magna - 82.5 mg/L - 96 h

### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.



## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

## SECTION 14: Transport information

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Light Aliphatic Naphtha), Marine Pollutant (Cyclohexane, Heptane)
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None
Passenger air/rail	5 L
Cargo aircraft only	60 L

### International Maritime Dangerous Goods (IMDG)

# Safety Data Sheet



According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016



Page 10 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

UN number	UN1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Light Aliphatic Naphtha), Marine Pollutant (Cyclohexane, Heptane)
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None
EmS number	F-E, S-E
Excepted quantities	E2
Limited quantity	1L

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1268
UN proper shipping name	Petroleum Distillates, N.O.S. (Light Aliphatic Naphtha), Marine Pollutant (Cyclohexane, Heptane)
UN transport hazard class(es)	3  
Packing group	II
Environmental hazards	Marine Pollutant
Special precautions for user	None
Excepted quantities	E2
Limited quantity	1L

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Listed

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

**SARA Section 302 extremely hazardous substances:** Not determined.

**SARA Section 313 toxic chemicals:**

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.04.2016

Page 11 of 12

Revision date: 02.02.2018

## Buffsol Prebuff Cleaner

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Not Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Not Listed
110-54-3	n-Hexane	Listed

### CERCLA:

110-82-7	Cyclohexane	Listed	1000
110-54-3	n-Hexane	Listed	5000

### RCRA:

110-82-7	Cyclohexane	Listed	U056
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Section 112(r) of the Clean Air Act (CAA): Not determined.

### Massachusetts Right to Know:

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Not Listed

### New Jersey Right to Know:

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Not Listed

### New York Right to Know:

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Not Listed

### Pennsylvania Right to Know:

110-82-7	Cyclohexane	Listed
142-82-5	Heptane	Listed
110-54-3	n-Hexane	Listed
64742-89-8	Solvent naphtha (petroleum), light aliphatic	Not Listed

**California Proposition 65:** ⚠️WARNING: This product can expose you to n-Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial preparation date:** 11.04.2016

Page 12 of 12

**Revision date:** 02.02.2018

### Buffsol Prebuff Cleaner

designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 1-3-0

**HMIS:** 1-3-0

**Initial preparation date:** 11.04.2016

**Revision date:** 02.02.2018

**End of Safety Data Sheet**