

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product Identifier**

Product Form : Mixture  
Product Name : PAINLESS STAINLESS  
Product Code : PS-4G

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Stainless Steel Cleaner

**1.3 Details of the supplier of the safety data sheet**

Twi-Laq Industries, Inc.  
1345 Seneca Avenue  
Bronx, NY 10474  
T (718) 638-5860

**1.4 Emergency telephone number**

Emergency number : CHEM-TREC 1-800-424-9300

**SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture**

**Classification (GHS-US)**

Aspiration 1, H304  
Flam. Liq 3, H226

**2.2 Label Elements**

**GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS08



GHS02



GHS07

Signal Word (GHS-US) :

**DANGER**

Hazard Statements (GHS-US) :

H226 - Flammable Liquid and vapor.  
H304 - May be fatal if swallowed and enters airways  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautionary statements (GHS-US) :

P233 - Keep container tightly closed.  
P235 - Keep cool.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting/.../equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P280 - Wash...thoroughly after handling.  
P302 + P353 + P363 - IF ON SKIN (or hair): Rinse skin with water/shower.  
Remove/Take off immediately all contaminated clothing.  
P301 + P331 + P310 - IF SWALLOWED: DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
P370 + P378 - In case of fire: Use foam, dry powder, carbon dioxide, water spray, or sand for extinction.  
P405 - Store locked up  
P403 - Store in a dry place.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

**2.3 Other Hazards**

No additional information available

**2.4 Unknown Acute Toxicity**

No Data Available

**SECTION 3: Composition / Information on Ingredients**

**3.1 Substance**

Not Applicable

**3.2 Mixture**

Name	Product Identifier	%	Classification (GHS-US)
distillates, hydrotreated middle	(CAS No.) 64742-46-7	50 - 70	Asp. 4, H304
naphtha, heavy alkylate	(CAS No.) 64741-65-7	20 - 30	Flam. Liq. 3, H226 Asp. Haz. 1, H304 Aquatic Tox. 4, H413
orange terpenes	(CAS No.) 5989-27-5	1 - 5	Acute Tox. Oral 5, H303 Acute Tox. Dermal 5, H313 Skin Corr. 2, H315 Skin Sens. 1, H317

# Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-propanol	(CAS No.) 67-63-0	1 - 5	Flam Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, 2, H336
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## SECTION 4: First Aid Measures

### 4.1 Description of First Aid measures

First Aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label where possible)
First Aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing.
First Aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First Aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First Aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

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

Symptoms / injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms / injuries after ingestion	: May be fatal if swallowed and enters airways.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media

Suitable extinguishing media	: Foam. Dry powder. Carbon Dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream

### 5.2 Special hazards arising from the substance or mixture

Fire Hazard	: Flammable liquid and vapor
Explosion Hazard	: May form flammable/explosive vapor/air mixture.

### 5.3 Advice for firefighters

Firefighting Instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental Release Measures

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

General Measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

#### 6.1.1 For non-emergency personnel

Emergency Procedures : Evacuate unnecessary personnel

#### 6.1.2 For emergency responders

Protective Equipment : Equip cleanup crew with proper protection  
Emergency Procedures : Ventilate area

### 6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up. : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/mist/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse

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

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible Products	: Strong bases. Strong Acids.
Incompatible Materials	: Sources of ignition. Direct sunlight. Heat sources.

**7.3 Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

PAINLESS STAINLESS		
USA ACGIH	Not Applicable	
USA OSHA	Not Applicable	
naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)		
USA ACGIH	Not Applicable	
USA OSHA	Not Applicable	
distillates, hydrotreated middle (CAS No. 64742-46-7)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA OSHA	Not Applicable	
2-propanol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	200 ppm
USA OSHA	OSHA PEL (TWA) mg/m3	980 mg/m3
USA OSHA	OSHA PEL (TWA) ppm	400 ppm
orange terpenes (5989-27-5)		
USA ACGIH	Not Applicable	
USA OSHA	Not Applicable	

**8.2 Exposure controls**

Personal Protective Equipment : Avoid all unnecessary exposure.  
 Hand Protection : Wear protective gloves.  
 Eye Protection : Chemical goggles or safety glasses.  
 Skin and body protection : Wear suitable protective clothing.  
 Respiratory Protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.  
 Other Information : Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state : Liquid  
 Color : Clear  
 Odor : citrus  
 Odor threshold : No data available  
 pH : N/A  
 Relative evaporation rate (butyl acetate=) : No data available  
 Melting Point : No data available  
 Freezing Point : No data available  
 Boiling Point : 315°F  
 Flash Point : ≥ 100°F  
 Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Flammability (solid, gas) : No data available  
 Vapor Pressure : No data available  
 Relative vapor density @ 20°C : 4.9  
 Relative density : 0.82  
 Solubility : Insoluble in Water  
 Log Pow : No data available  
 Log Kow : No data available  
 Viscosity, kinematic : 1cSt  
 Viscosity, dynamic : No data available  
 Explosive Properties : No data available  
 Oxidizing Properties : No data available  
 Explosive Limits : No data available

**9.2 Other Information**

No additional information available.

**SECTION 10: Stability and Reactivity**

**10.1 Reactivity**

Thermal decomposition generates: Corrosive vapors.

**10.2 Chemical Stability**

Stable under normal conditions. Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

**PAINLESS STAINLESS**

**Safety Data Sheet**

**10.3 Possibility of hazardous reactions**

Not established

#### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

#### 10.5 Incompatible materials

Strong Acids. Strong bases.

#### 10.6 Hazardous decomposition products

Fume. Carbon Monoxide. Carbon Dioxide. May release flammable gas.

### SECTION 11: Toxicological Information

#### 11.1 Information on toxicological effects

Acute Toxicity : Not classified

<b>naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)</b>	
LD50 oral rat	> 5000 mg/kg (Rat) Remarks: Low toxicity
LD50 inhalation rat	(Rat): Remarks: Low toxicity; LC50 greater than near-saturated vapor concentration
LD50 dermal rabbit	> 5000 mg/kg (Rabbit) Remarks: Low toxicity

<b>distillates, (petroleum) hydrotreated middle (CAS No. 64742-46-7)</b>	
LD50 oral rat	> 5000 mg/kg (Rat)

<b>2-propanol (67-63-0)</b>	
LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE US (oral)	5045.00 mg/kg body weight
ATE US (dermal)	12870.00 mg/kg body weight
ATE US (vapors)	73.00 mg/l/4h
ATE US (dust, mist)	73.00 mg/l/4h
LD50 dermal rabbit	12870 mg/kg (16.4; Rabbit)
LC50 inhalation rat	73 mg/l/4h (Rat)

<b>orange terpenes (5989-27-5)</b>	
LD50 oral rat	=4400 mg/kg (Rat)
LD50 dermal rabbit	>5 g/kg (Rabbit)
LC50 inhalation	Yes

Skin corrosion / irritation : Not classified (pH N/A)  
 Serious eye damage / irritation : Not classified (pH N/A)  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

<b>2-propanol (67-63-0)</b>	
IARC group	3 - Not classifiable

<b>orange terpenes (5989-27-5)</b>	
IARC group	3 - Not classifiable

Reproductive Toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified  
 Specific target organ toxicity (repeated exposure) : Not classified  
 Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available date, the classification criteria are not met.

### SECTION 12: Ecological Information

#### 12.1 Toxicity

<b>naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)</b>	
Incomplete ecotoxicological data are available for this product.	

<b>distillates, (petroleum) hydrotreated middle (CAS No. 64742-46-7)</b>	
Incomplete ecotoxicological data are available for this product.	

<b>d'limonene (5989-27-5)</b>	
LC50 fish 1	720 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 µg/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

## PAINLESS STAINLESS

### Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>2-propanol (67-63-0)</b>	
LC50 fish 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow - through system)
EC50 Daphnia 1	10000 mg/l (48 h; Daphnia magna)

LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)

## 12.2 Persistence and degradability

<b>PAINLESS STAINLESS</b>	
Persistence and degradability	Not established
<b>naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)</b>	
Persistence and degradability	Inherently biodegradable. Oxidizes rapidly by photo-chemical reactions in air.
<b>distillates, (petroleum) hydrotreated middle (CAS No. 64742-46-7)</b>	
Persistence and degradability	Not Available
<b>d'limonene (5989-27-5)</b>	
Persistence and degradability	Not Available
<b>2-propanol (67-63-0)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.40 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.49 % ThOD

## 12.3 Bioaccumulative potential

<b>PAINLESS STAINLESS</b>	
Bioaccumulative potential	Not established
<b>naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)</b>	
Bioaccumulative potential	Has the ability to bioaccumulate.
<b>distillates, (petroleum) hydrotreated middle (CAS No. 64742-46-7)</b>	
Bioaccumulative potential	No information available
<b>d'limonene (5989-27-5)</b>	
Bioaccumulative potential	No information available
<b>2-propanol (67-63-0)</b>	
Log Pow	0.05 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

## 12.4 Mobility in Soil

<b>PAINLESS STAINLESS</b>	
Mobility in soil	Not established
<b>naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)</b>	
Mobility in soil	Floats on water. If enters soil, it will adsorb to soil particles and will not be mobile.
<b>distillates, (petroleum) hydrotreated middle (CAS No. 64742-46-7)</b>	
Mobility in soil	No information available
<b>d'limonene (5989-27-5)</b>	
Mobility in soil	No information available
<b>2-propanol (67-63-0)</b>	
Surface Tension	0.021 N/m (25 °C)

## 12.5 Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product
Other information	: Avoid release to the environment

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations.
Ecology - Waste materials	: Avoid release to the environment

# PAINLESS STAINLESS

## Safety Data Sheet

according to Federal Register / Col. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 14: Transport Information

In accordance with DOT	: Not Regulated For Transport
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### Additional Information

Other Information	: No supplementary information available
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**ADR**

Transport document description :  
**Transport by sea** : No additional information available  
**Air transport** : No additional information available

**SECTION 15: Regulatory Information****15.1 US Federal Regulations****naphtha (petroleum), heavy alkylate (CAS No. 64741-65-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not Listed on United States SARA Section 313

**2-proponal (67-63-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on United States SARA Section 313

**d'limonene (5989-27-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not Listed on United States SARA Section 313

**15.2 International Regulations****CANADA**

No additional information available

**EU Regulations**

No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC [DSD] or 1999/44/EC [DPD]**

Not Classified

**15.2.2 National Regulations**

No additional information available

**SECTION 16: Other Information**

Revision Date : 5/18/2015

Other Information : None

**HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS Hazcom 2012)

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