

# SAFETY DATA SHEET.

Issuing date 10-May-2016

Revision Date 08-May-2018

Version 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product name** 4689 QUART CONTACT CLEANER

### Recommended use of the chemical and restrictions on use

**Product code** F01774

**Product Type** Highly Flammable Liquid and Vapor  
**Synonyms** None

### Supplier's details

**Recommended Use** Contact Cleaner.  
**Uses advised against** No information available

**Manufactured For:**  
Imperial Supplies LLC  
789 Armed Forces Drive  
P.O. Box 11008  
Green Bay, WI 53407-1008  
1-800-558-2808

**Manufacturer**  
American Jetway Corporation  
34136 Myrtle Street  
Wayne, MI 48184-0126  
Phone:(734) 721-5930

**Emergency telephone number**  
**Chemical Emergency Phone Number** CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES)

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 2

### GHS Label elements, including precautionary statements

#### Emergency Overview

#### DANGER

#### Hazard Statements

Causes skin irritation.

Causes eye irritation.

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs (Eyes, Skin, Respiratory System, Central Nervous System, and Peripheral Nervous System ) through prolonged and repeated exposure.

May be fatal if swallowed and enters airways.

Highly flammable liquid and vapor



**Appearance** Clear

**Physical state** Liquid

**Odor** Solvent

#### Precautionary Statements - Prevention

Obtain special instructions before use.

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

Wear protective gloves, protective clothing, eye protection, face protection.

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

Do not breathe dust, fume, gas, mist, vapors, spray.

Use only outdoors or in a well-ventilated area.

Keep away from heat, sparks, open flames, hot surfaces - No smoking.

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof electrical, ventilating, lighting, equipment

Use only non-sparking tools

Take precautionary measures against static discharge

#### Precautionary Statements - Response

If exposed or concerned: Get medical advice, attention.

Specific treatment (see first aid on this label).

IF IN EYES: 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

If skin irritation occurs: Get medical advice, attention.

IF ON SKIN (or hair: ) Take off immediately all contaminated clothing. Rinse skin with water, shower

Wash contaminated clothing before reuse

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor, physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER, doctor, physician.

Do NOT induce vomiting.

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

#### Precautionary Statements - Storage

Store locked up.

Store in a well-ventilated place.

Keep cool.

#### Precautionary Statements - Disposal

Dispose of contents, container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC)

None

#### Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
ISOHEXANE	107-83-5	40-50
HEXANE	110-54-3	10-20
3-METHYLPENTANE	96-14-0	10-20
2,3-DIMETHYLBUTANE	79-29-8	10-20
2,2-DIMETHYLBUTANE	75-83-2	10-20
N-HEXANE	110-54-3	1-10

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice	Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. If eye irritation persists, consult a doctor.
Skin contact	If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.

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

Main Symptoms	Causes skin and eye irritation. Suspected of damaging fertility or the unborn child. May cause respiratory irritation or cause drowsiness and dizziness. May cause damage to
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organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.

**Specific hazards arising from the chemical**

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition. Keep containers and surrounding areas cool with water spray.

**Hazardous Combustion Products** Carbon oxides , Hydrocarbons, Fumes. Chlorine gas. Halogenated compounds.

**Explosion Data**

**Sensitivity to Mechanical Impact** Yes.

**Sensitivity to Static Discharge** Yes.

**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. Use shielding to protect fire-fighters from bursting containers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use with adequate ventilation to keep the exposure levels below the OELS. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions**

**Environmental precautions** Vapors can accumulate in low areas. Report spills as required by local and federal regulations. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Should not be released into the environment.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains.

**Methods for cleaning up** Soak up with inert absorbent material. Contain liquid and collect with an inter, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up. Keep cool.

**Incompatible products**

Strong acids, alkalis, oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ISOHEXANE 107-83-5	STEL: 1000 ppm TWA: 500 ppm	-	-
HEXANE 110-54-3	TWA: 50 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m <sup>3</sup>	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>
3-METHYLPENTANE 96-14-0	STEL: 1000 ppm TWA: 500 ppm	-	-
2,3-DIMETHYLBUTANE 79-29-8	STEL: 1000 ppm TWA: 500 ppm	-	-
2,2-DIMETHYLBUTANE 75-83-2	STEL: 1000 ppm TWA: 500 ppm	-	-
N-HEXANE 110-54-3	TWA: 50 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m <sup>3</sup>	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls****Engineering Measures**

Ventilation systems. Use adequate ventilation to keep the exposure levels below the occupational exposure limits. Eyewash stations. Showers, eyewash stations, and ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin and body protection**

Chemical resistant apron. Protective gloves.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and chemical properties****Physical state**

Liquid

Appearance	Clear	Odor	Solvent
Color		Odor Threshold	
<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>	
pH	No information available		
Melting/freezing point	No information available		
Boiling point/boiling range	50 - 70 °C / 122 - 158 °F		
Flash Point	-29 °C / -20 °F	(based on components)	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limits in Air			
upper flammability limit	7.4 %		
lower flammability limit	1.0 %		
Vapor pressure			
Vapor density			
Specific Gravity	0.6638	g/ml	
Water solubility	Negligible		
Partition coefficient: n-octanol/water			
Autoignition temperature	No information available		
Decomposition temperature			
Viscosity	No information available		
Explosive properties			
<u>Other information</u>			
VOC Content(%)	100		

## 10. STABILITY AND REACTIVITY

### **Reactivity**

Stable under recommended storage conditions

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

None under normal processing.

### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

### **Incompatible Materials**

Strong acids, alkalis, oxidizing agents.

### **Hazardous Decomposition Products**

Carbon oxides , Hydrocarbons, Fumes.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

#### **Product Information**

<b>Inhalation</b>	May cause respiratory irritation, May cause drowsiness or dizziness.
<b>Eye contact</b>	Causes eye irritation.
<b>Skin contact</b>	Causes skin irritation.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
HEXANE 110-54-3	= 25 g/kg ( Rat )	= 3000 mg/kg ( Rabbit )	= 48000 ppm ( Rat ) 4 h
N-HEXANE 110-54-3	= 25 g/kg ( Rat )	= 3000 mg/kg ( Rabbit )	= 48000 ppm ( Rat ) 4 h

**Information on toxicological effects****Symptoms**

Causes eye irritation. Causes skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs (listed below) through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Irritating to skin.

**Eye damage/irritation**

Irritating to eyes.

**Sensitization**

Not a known sensitizer.

**Germ cell mutagenicity**

Not a germ cell mutagen.

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

**Reproductive toxicity**

Product is or contains a chemical which is a known or suspected reproductive hazard.

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

May cause respiratory irritation. May cause drowsiness and dizziness.

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

May cause damage to target organs listed below through prolonged and repeated exposure.

**Chronic toxicity**

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.

**Target Organ Effects****Neurological effects**

Eyes, Skin, Respiratory System, Central Nervous System, and Peripheral Nervous System. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Numerical measures of toxicity - Product Information****Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

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

**ATEmix (oral)**

2778 mg/kg

**ATEmix (dermal)**

4504 mg/kg

**ATEmix (inhalation-vapor)**

266667 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
HEXANE 110-54-3	-	2.1 - 2.98 mg/L LC50 Pimephales promelas 96h flow-through	-	-
N-HEXANE 110-54-3	-	2.1 - 2.98 mg/L LC50 Pimephales promelas 96h flow-through	-	-

**Persistence and degradability****Bioaccumulation**

Chemical Name	log Pow
2,2-DIMETHYLBUTANE 75-83-2	3.8

**Other adverse effects** No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations. Dispose of in accordance with federal, state, and local regulations.

**Contaminated packaging** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT Ground** LIMITED QUANTITY

#### **IATA**

For packages <= 1 L  
UN1208, HEXANES, 3, PG II, LIMITED QUANTITY

#### **IMDG**

For packages <= 1 L  
UN1208, HEXANES, 3, PG II, LIMITED QUANTITY

### 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
ISOHEXANE	X	X	X	X	X	X	X	X
HEXANE	X	X	X	X	X	X	X	X
3-METHYLPENTANE	X	X	X	X	X	X	X	X
2,3-DIMETHYLBUTANE	X	X	X	X	X	X	X	X
2,2-DIMETHYLBUTANE	X	X	X	X	X	X	X	X
N-HEXANE	X	X	X	X	X	X	X	X

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances



**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain 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 %
HEXANE - 110-54-3	110-54-3	10-20	1.0
N-HEXANE - 110-54-3	110-54-3	1-10	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
HEXANE 110-54-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
N-HEXANE 110-54-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Chemical Name	California Prop. 65
HEXANE - 110-54-3	Male Development /10-20%
N-HEXANE - 110-54-3	Developmental, Reproductive (Male) 1-10%

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ISOHEXANE 107-83-5	X	X	X
HEXANE 110-54-3	X	X	X
3-METHYLPENTANE 96-14-0		X	X
2,3-DIMETHYLBUTANE 79-29-8	X	X	X

2,2-DIMETHYLBUTANE 75-83-2	X	X	X
N-HEXANE 110-54-3	X	X	X

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2*</b>	<b>Flammability 3</b>	<b>Physical Hazard 0</b>	<b>Personal protection B</b>
<i>Chronic Hazard Star Legend</i>		<i>Repeated or prolonged exposure may cause central nervous system damage Chronic Health Star Hazard</i>		

**Prepared By** American Jetway Corporation  
34136 Myrtle Street  
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**Revision Note**

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet