Safety Data Sheet

Company Name/Logo Here

Section 1: Identification

Product identifier

Product Name • GHS Format Example SDS

Product Code o 123456

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

Recommended use o Hazard Communication & Compliance

Details of the supplier of the safety data sheet

Manufacturer o Chemical Maker LLC

123 Backwards Drive
City, State 12345
United States
www.Chemmaker.com
support@chemake.com

Telephone (General) o 123-456-7890

Emergency telephone number

Manufacturer o 123-456-7890

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 o Flammable Liquids 2 - H225
Skin Irritation 2 - H315
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

Label elements

OSHA HCS 2012

DANGER

Hazard statements o Highly flammable liquid and vapour- H225
Causes skin irritation - H315
May cause drowsiness or dizziness - H336

Precautionary statements

o Keep away from heat, sparks, open flames and/or hot surfaces. -No smoking. - P210
Keep container tightly closed. - P233
Keep cool. - P235

Prevention	Ground and/or bond container and receiving equipment. - P240 Use explosion-proof- electrical, ventilating and/or lighting equipment. - P241 Use only non-sparking tools. - P242 Take precautionary measures against static discharge. - P243 Avoid breathing dust, fume, gas, mist, vapours and/or spray. - P261 Wash thoroughly after handling. - P264 Use only outdoors or in a well-ventilated area. - P271 Wear protective gloves/protective clothing/eye protection/face protection. - P280
Response	o In case of fire: Use appropriate media for extinction. - P370+P378 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340 Call a POISON CENTER or doctor/physician if you feel unwell. - P312 IF ON SKIN: Wash with plenty of soap and water. - P302+P352 Rinse skin with water/shower. - P353 Take off contaminated clothing and wash before reuse. - P362 If skin irritation occurs: Get medical advice/attention. - P332+P313 Specific treatment, see supplemental first aid information. - P321
Storage/Disposal	o Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501 Store in a well-ventilated place. Keep container tightly closed. - P403+P233

Other hazards

OSHA HCS 2012

o Under United States Regulations (29 CFR 1910.1200 -Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

Classification of the substance or mixture

WHMIS

o Flammable Liquids - 82
Other Toxic Effects - D28

Label elements

WHMIS

o Flammable Liquids - 82
Other Toxic Effects - D28

Other hazards

WHMIS

o In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Other information

NFPA

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Substances

1 Material does not meet the criteria of a substance.

Mixtures

Hazardous Componente					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Naphtha (petroleum), hydrotreated light	CAS:64742-49-0	60% TO 100%	NDA	OSHA HCS 2012: Flam. Liq. 2; Asp. 1 Skin Irrit. 2, STOT SE 3: Narc.	NDA
Isopropyl alcohol	CAS:67-63-0 UN:UN1219	1% TO 8%	Inhalation-Rat LC50 · 16000 ppm 8 Hour(s) Skin-Rabbit LD50 · 12800 mg/kg Ingestion/Oral-Rat LD50 · 5000	OSHA HCS 2012:Eye Irrit 2; Flam. Liq. 2;	NDA

See Section 11 for Toxicological Information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation — 1 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin — , In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye — 1 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.

Ingestion — 1 Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

Most important symptoms and effects, both acute and delayed

1 Refer to Section 11 -Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician — 1 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

See *Section 2 for Potential Health Effects.*

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media — 1 Regular foam, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media — 1 Avoid the use of streaming water, as this may spread the fire.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards — 1 HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Extremely flammable liquid and vapor.

Vapors may form explosive mixtures with air.
Vapor explosion hazard indoors, outdoors or in sewers.
Vapors may travel to source of ignition and flash back.
Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products: Smoke, soot, fumes or vapors, oxides of carbon, various hydrocarbons.

Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Move containers from fire area if you can do it without risk.
Use water spray to cool containers exposed to fire.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures: Stop leak if you can do it without risk.
All equipment used when handling the product must be grounded.
Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling: Keep away from heat and ignition sources – No Smoking. Product can accumulate static charge by fiow or agitation. Bond and ground equipment when transferring from one vessel to another. Empty containers retain product residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other ignition sources. They may explode and cause injury or death. Use only with adequate ventilation. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

Conditions for safe storage, including any incompatibilities

Storage: Store in a cool/low-temperature, well-ventilated place away from heat and ignition sources. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or Ignition Sources: Keep away from heat, ignition sources oxidizers and strong acids.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	NIOSH
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	700 mg/m3 STEL	500 ppm STEL; 1225 mg/m3 STEL
	TWAs	200 ppm TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	350 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA

Exposure Limits/Guidelines - (Con't.)		
	Result	OSHA
Isopropyl alcohol (67-63-0)	TWAs	400 ppm TWA; 980 mg/m3 TWA

Exposure controls

Engineering Measures/Controls
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Personal Protective Equipment

Pictograms

Respiratory
- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
- Wear safety goggles.

Hands
- Wear protective gloves -neoprene, butyl or nitrile rubber with cuffs.

Skin/Body
- Where extensive dermal exposure may be expected, either a chemical suit or chemical apron will be needed.

General Industrial Hygiene Considerations
- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls
- Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH =American Conference of Governmental Industrial Hygiene
NIOSH =National Institute of Occupational Safety and Health
OSHA =Occupational Safety and Health Administration
MSHA =Mine Safety and Health Administration
TWA =Time-Weighted Averages are based on 8h/day, 40h/week exposures
STEL =Short Term Exposure Limits are based on 15-minute exposures
STEV =Short Term Exposure Value

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Black flammable liquid wilh a hydrocarbon odor.
Color	Black	Odor	Hydrocarbon
Taste	Data lacking	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant

Odor Threshold	Data lacking	Physical and Chemical Properties	Data lacking
General Properties			
Boiling Point	200 F(93.3333 C)	**Melting Point**	Data lacking
Decomposition Temperature	Data lacking	**Heat of Decomposition**	Data lacking
pH	Data lacking	**Specific Gravity/Relative Density**	0.82 Water=1
Density	6.83 lbs/gal	**Bulk Density**	Data lacking
Water Solubility	Insoluble	**Solvent Solubility**	Data lacking
Viscosity	Not relevant	**Explosive Properties**	Classification criteria not met.
Oxidizing Properties:	Classification criteria not met.		
Volatility			
Vapor Pressure	45 mmHg (torr) @ 68 C(154.4 F)	**Vapor Density**	3.5 Air=1
Evaporation Rate	4.2 n-Butyl Acetate = 1	**VOC (Wt.)**	Data lacking
VOC (Vol.)	495 g/L	**Volatiles (Wt.)**	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	-10 C(14 F)	**UEL**	7 %
LEL	1 %	**Autoignition**	223 C(433.4 F)
Self-Accelerating Decomposition Temperature (SADT)	Data lacking	**Heat of Combustion (ΔHc)**	Data lacking
Burning Time	Data lacking	**Flame Duration**	Data lacking
Flame Height	Data lacking	**Flame Extension**	Data lacking
Ignition Distance	Data lacking	**Flammability (solid, gas)**	Classification criteria not met.
Environmental			
Half-Life	Data lacking	Partition	Data lacking
of water/oil	Data lacking	**Bioaccumulation Factor**	Data lacking
Bioccmcentratiion Factor	Data lacking	Biochemical Oxygen Demand BOD/8005	Data lacking
Chemical Oxygen Demand	Data lacking	**Persistence**	Data lacking
Degradation	Data lacking		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- High temperatures, sparks, open flames and live electrical circuits.

Incompatible materials

- Oxidizing agents, strong acids.

Hazardous decomposition products

- In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

Section 11 - Toxicological Information

Information on toxicological effects

Component Name	CAS	Data
Isopropyl alcohol (1% TO 8%)	67-63-0	Acute Toxicity: orl-rat LD50:5045mglkg; ihl-rat LC50:16000 ppm/BH; skn-rbt LD50:12800 mg/kg; Irritation: eye-rbt 100 mg SEV; skn-rbt 500 mg MLD; Reproductive: ihl-ratTCLo:?OOO ppm/7H (1-190 preg)

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation2
Skin sensitization	OSHA HCS 2012Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met

Target Organs
- Central Nervous System (CNS)

Route{s) of entry/exposure
- Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute {Immediate)
- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. Intentional concentration and inhalation of vapors of this material may lead to nervous system damage.

Chronic {Delayed)
- No data available.

Skin

Acute {Immediate)
- Causes skin irritation.

Chronic {Delayed)
- Repeated and prolonged exposure may cause dermatitis.

Eye

Acute {Immediate)
- May cause mild eye irritation.

Chronic {Delayed)
- No data available.

Ingestion

Acute (Immediate)	o May cause irritation.
Chronic (Delayed)	o No data available.

Section 12 - Ecological Information

Toxicity

o Material data lacking.

Persistence and degradability

o Material data lacking.

Bioaccumulative potential

o Material data lacking.

Mobility in Soil

o Material data lacking.

Other adverse effects

o No studies have been found.

Other Information

o No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/1 based upon data from components and similar products.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste	o Dispose of content and/or container in accordance wilh local, regional, national, and/or international regulations.
Packaging waste	o Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1993	Flammable liquids, n.o.s.	3	II	NDA
TOG	UN1993	FLAMMABLE LIQUID, N.O.S.	3	II	Potential Marine Pollutant
IMO/IMDG	UN1993	FLAMMABLE LIQUID, N.O.S	3	II	NDA
IATAJICAO	UN1993	Flammable liquids, n.o.s.	3	II	NDA

Special precautions for user	o None specified.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	o This product is provided only in non-bulk containers.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications 1 Acute, Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Naphtha (petroleum), hydrotreated light	64742-49-0	No	No	No
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Naphtha (petroleum), hydrotreated light	64742-49-0	Yes	No	Yes
Isopropyl alcohol				

Canada

Labor

CanadaWHMIS- Classifications of Substances

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TOS% 82, D2B (including 70%)

Canada- WHMIS- Ingredient Disclosure List

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1%T08% **1%**

Environment

Canada- CEPA- Priority Substances List

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TOS% Not Listed

United States

Labor

U.S.- OSHA- Process Safety Management- Highly Hazardous Chemicals

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TO 8% Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 **1% TO 8%** Not Listed

Environment

U.S.- CAA (Clean Air Act)- 1990 Hazardous Air Pollutants

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 **1%T08%** Not Listed

U.S.- CERCLA/SARA- Hazardous Substances and their Reportable Quantities

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- **Isopropyl alcohol** 67-63-0 **1% TO 8%** Not Listed

U.S.- CERCLA/SARA- Section 302 Extremely Hazardous Substances EPCRA RQs

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 **1% TO 8%** Not Listed

U.S.- CERCLA/SARA- Section 302 Extremely Hazardous Substances TPQs

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- **Isopropyl alcohol** 67-63-0 **1% TO 8%** Not Listed

U.S.- CERCLA/SARA- Section 313- Emission Reporting

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 **1% TO 8%** **1.0% de minimis concentration (only if manufactured by the strong acid process, no supplier notification)**

U.S.- CERCLA/SARA- Section 313- PBT Chemical Listing

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 **1%T08%** Not Listed

United States -California

Environment

U.S.- California - Proposition 65 - Carcinogens List

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% T08% Not Listed

U.S.- California -Proposition 65- Developmental Toxicity

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% T08% Not Listed

U.S.- California- Proposition 65- Maximum Allowable Dose Levels (MADL)

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TO 8% Not Listed

U.S.- California - Proposition 65 - No Significant Risk Levels (NSRL)

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% T08% Not Listed

U.S.- California -Proposition 65- Reproductive Toxicity -Female

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TO 8% Not Listed

U.S.- California -Proposition 65- Reproductive Toxicity -Male

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% T08% Not Listed

nited States -Pennsylvania

Labor----------

U.S.- Perrrrsylvanla- R'fi<1R:lght to Krrow)- ErivIrornrrerrtaH=lazm'ttit:tsr----------j

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% T08%

U.S.- Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- Naphtha (petroleum), hydrotreated light 64742-49-0 60% TO 100% Not Listed
- Isopropyl alcohol 67-63-0 1% TO 8% Not Listed

United States - Rhode Island

Labor----------

U.S.- Rhode Island - Hazardous Substance List

• Naphtha (petroleum), hydrotreated light	64742-49-0	60% TO 100%	Not Listed
• Isopropyl alcohol	67-63-0	1% TO 8%	Toxic; **Flammable**

Section 16 - Other Information

Last Revision Date	• 06/03/2012
Preparation Date	• 06/03/2012
Disclaimer/Statement of Liability	The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations

NDA= No data available.