

SAFETY DATA SHEET



SDS No.: 7.1
Latest Revision: 20-Dec-19
Date Created: May 24, 2019

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: EasiSolv 120 Solvent Cleaner
General Use: Cleaner
Product Description: Clear Liquid With Citrus Odor

EMERGENCY TELEPHONE NUMBERS:

(800)-255-3924 ChemTel USA, Canada, Puerto Rico
& U.S. Virgin Islands
+1(813) 248-0585 ChemTel International (Call Collect)
Easiway Systems Contract Number MIS3609005

MANUFACTURER

Easiway Systems, Inc.
540 S River Street
Delano, MN 55328
Phone 1-763-972-6306
www.easiway.com

sales@easiway.com

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid	Category 3
Aspiration Toxicity	Not Rated Under GHS*
Skin Corrosion/Irritation	Category 2
Eye Corrosion/Irritation	Not Rated Under GHS
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Not Rated Under GHS
Specific Organ Toxicity Single Exposure	Not Rated Under GHS
Reproductive Toxicity	Not Rated Under GHS
Acute Toxicity	Not Rated Under GHS
Germ Cell mutagenicity	Not Rated Under GHS
Corrosive to Metals	Not Rated Under GHS
Hazardous to the aquatic environment	See Section 12

Hazard Category - means the division of criteria within each hazard class, e.g. acute toxicity includes five hazard categories and flammable liquids include four hazard categories. These categories compare hazard severity within a hazard class. "GHS Classification of Substance" means the material hazard class under that particular category and should not be taken as a comparison of hazard categories more generally. Degree of severity under GHS is "1" being the most severe and sequential numbers indicating correspondingly less severity. "Not Classified Under GHS" does not have characteristics that fall into any of the categories for that hazard class.

* - Contains two aspiration hazards - limonene and the hydrotreated heavy petroleum naphtha - total is less than 3% by wt too low of an amount to reach an aspiration hazard threshold.

SAFETY DATA SHEET

GHS LABEL ELEMENTS



flammability



skin irritation

WARNING

Hazard Statements

H226 - Flammable liquid and vapor

H315 - Causes Skin Irritation

Precautionary Statements

General:

P101-If medical advice is needed, have product container or label at hand.

P103-Read label before use.

Prevention:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharges

P261 - Avoid breathing mist, vapors

P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear protective gloves and eye protection

P284 - In the case of inadequate ventilation, wear respiratory protection

Response:

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P302+P352 - If on skin: Wash with plenty of water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P370+P378 - In case of fire: Use foam, carbon dioxide (CO₂), dry extinguishing powder, sand to extinguish

Storage/Disposal:

P403+235+404-Store in well-ventilated place. Keep cool. Store in closed container.

P501-Dispose of contents/container in accordance with local/regional/federal regulations.

UN GHS

This product is hazardous based on flammability and skin irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Propylene glycol monomethyl ether acetate	62 - 84	108-65-6
d-Limonene	<2	5989-27-5
Propylene glycol methyl ether propionate	10 - 11	148462-57-1
Isobutyl isobutyrate	2 - 3	97-85-8

SAFETY DATA SHEET

Naphtha (petroleum), hydrotreated heavy

<1

64742-48-9

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air and keep at rest in a comfortable position. Get medical attention if symptoms persist after moving to fresh air. Give oxygen if available, symptoms persist, and medical attention is not immediate.

EYE CONTACT:

Remove contact lens (if present). Rinse eyes immediately with plenty of clean water for at least 15 minutes. If necessary, gently hold the eyelid open during the flush. Seek medical attention following initial eye washing. Product is caustic and irreversible eye damage can occur if material is not successfully removed from the eyes.

SKIN CONTACT:

Immediately wash skin with mild soap solution to remove material from skin. Remove affected clothing and launder prior to re-use. If skin damage occurs other than redness, seek medical attention and provide this SDS to attending medical personnel.

INGESTION:

Ingestion is not a likely route of exposure based on commercial product use. If ingestion occurs, seek immediate medical attention. Do NOT induce vomiting or give anything but water by mouth without being directed to do so by POISON CONTROL or attending medical personnel. Product contains low levels of two components that are aspiration hazards.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: 48 C/118 F

Flammable Limits: 1.5 - 7% by volume estimated at 25 C/77 F

Autoignition Temperature: >260 C/500 F

GENERAL HAZARD:

The product is solvent based and moderately flammable. Warming the product will generate vapor and enhance its fire potential. Will contribute fuel to any on going fire.

FIRE FIGHTING INSTRUCTIONS:

Water fog or fine spray; dry chemical fire extinguishers; carbon dioxide fire extinguishers; foam; alcohol resistant foams (ATC type). Use water fog or fine spray for cooling exposed containers to control heating.

FIRE FIGHTING EQUIPMENT:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

FURTHER INFORMATION:

During a fire, smoke may contain the original material in addition to combustion products which might be more irritating.

SAFETY DATA SHEET

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide, and organics such as aldehydes depending on the heat of the fire.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL RESPONSE:

Absorb small spills with inert material such as sand or earth. Containerize waste material. Dike large spills to contain the area of the spill. Use clean up procedures that minimize contamination to earth or water bodies.

WATER SPILL:

The glycol ethers that dominant the product formulation tend to be miscible with water and it is unlikely a spill can be isolated from the water body. Limit transfer to other water bodies by any methods available. Large concentrations in a water body is likely acutely toxic to aquatic life. The spilled material is expected to degrade with time.

RECOMMENDED DISPOSAL:

Disposal options may be dictated by other materials mixed with this material. Dispose of in accordance with local, state, and federal regulations using methods which consider recycling/reclamation.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

GENERAL:

Keep the container tightly closed. Store in a dry, cool, and well-ventilated place away from incompatible materials such as oxidizing agents and acids. Preferable storage is in a location designed for flammable liquids with secondary spill containment. Remaining residue in empty containers may present a fire hazard. Avoid breathing mist or vapor. Store any large quantities in metal containers as plastic cannot be grounded.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200 and other agencies)

<u>Component</u>	EXPOSURE LIMITS 8 hrs TWA (ppm)				
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>	<u>AIHA WEEL</u>	<u>Other</u>

SAFETY DATA SHEET

Propylene glycol monomethyl ether acetate	None Established	None Established	None Established	50 ppm	100 ppm - respiratory; 150 ppm - skin California PEL
d-limonene	None Established	None Established	None Established	None Established	5 ppm - DFG Mak
Propylene glycol methyl ether propionate	None Established	None Established	None Established	None Established	
Isobutylisobutyrate	None Established	None Established	None Established	None Established	
Naphtha (petroleum), hydrotreated heavy	500 ppm*	100 ppm*	350 ppm*	None Established	

* - exposure limits for a related compound (Stoddard Solvent)

ENGINEERING CONTROLS:

Provide adequate general and local exhaust ventilation to maintain exposure below established exposure limits. Provide eyewash stations and safety showers in locations available to material users. Provide hand washing facilities for routine use by personnel using the material.

PERSONAL PROTECTION:

Splash goggles and apron should be worn when pouring this material to avoid contact with the liquid. Hand protection is recommended when there is possible direct contact with the liquid. Glove choice should be appropriate for the chemical blend and the specific activity being performed. NOTE: nitrile gloves are a general purpose glove available in a wide variety of thicknesses and protect against most chemicals. Respiratory protection should be appropriate for solvent exposure and utilized if ventilation cannot be established to adequately maintain exposure within exposure limits such as might occur when cleaning up spills.

EXPOSURE EVALUATION:

Exposures depend on activities being performed and the ventilation in the area. Most of the solvents in the mixture are not sufficiently volatile to create significant airborne exposure unless material is aerosolized in some manner. Personal exposure monitoring can be performed by the employer to determine his/her employee exposures to the product during routine use at the facility. It is beyond the responsibility of the product supplier to estimate/determine airborne exposure in a user's facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	3.6 mm Hg @ 20 C/68 F	Vapor Density:	Heavier than air
Specific Gravity:	0.95 @ 20 C/68 F	Evaporation Rate:	Not Determined
Solubility in Water:	Not Determined	Freezing Point:	Not Determined
		Odor:	Citrus
pH:	Not Determined; but neutral	Appearance:	Clear
Boiling Point:	>140 C/284 F	Physical State:	Liquid
Viscosity:	Not Determined	Flammable Range:	No Data Available
Flash Point:	48 C/118 F (Setaflash)	VOC content:	950 g/l (7.9 lbs/gallon) tested by EPA

10. STABILITY AND REACTIVITY

GENERAL:

No dangerous reactions known under normal use conditions.

SAFETY DATA SHEET

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids and strong oxidizers and strong bases.

HAZARDOUS DECOMPOSITION:

Burning will create carbon dioxide, carbon monoxide, and possibly some organics depending on the heat available and extent of burn.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Propylene glycol monomethyl ether acetate	oral LD50	6190 mg/kg	
Propylene glycol monomethyl ether acetate	dermal LD50	>5000 mg/kg	
Propylene glycol monomethyl ether acetate	vapor LC50	>20 mg/L	
Propylene glycol monomethyl ether acetate	OECD 404	No skin irritation	Rabbit
Propylene glycol monomethyl ether acetate		No eye irritation	Rabbit
Propylene glycol monomethyl ether acetate	OECD 406	did not cause sensitization	Guinea pig
Isobutyl isobutyrate	oral LD50	12,800 mg/kg	Rat
Isobutyl isobutyrate	dermal LD50	>8,600 mg/kg	Rabbit
Naptha (petroleum), hydrotreated heavy	oral LD50	>5000 mg/kg	
Naptha (petroleum), hydrotreated heavy	dermal LD50	>5000 mg/kg	
Propylene glycol methyl ethyl propionate	oral LD50	>5000 mg/kg	Rat
Propylene glycol methyl ethyl propionate	skin LD50	>12,000 mg/kg	Rat
Propylene glycol methyl ethyl propionate	inhalation LC50	>6000 ppm	Rat
d-Limonene	oral LD50	>5000 mg/kg	Rabbit
d-Limonene	dermal LD50	>5000 mg/kg	Rabbit
d-Limonene	inhalation LC50	>1000 mg/kg	Mice

ROUTES OF ENTRY:

Skin, eye, and respiratory routes of entry are more important than is oral during commercial uses.

CHRONIC EFFECTS ON HUMANS:

d- Limonene component is a known sensitizer and long term repeated use with skin contact may result in developing an allergy. Propylene glycol monomethyl ether acetate (PGMEA) and propylene glycol methyl ether propionate are both in the family of glycol ethers. The propylene glycol ethers have narcotic effects but are considered of lesser toxicity than are the ethylene glycol ethers. No components of this product are listed as carcinogens by IARC.

Naptha (petroleum), hydrotreated heavy is a petroleum fraction that either does not contain the problematic aromatic hydrocarbons such as benzene or contain them only at very trace levels. This is not a significant component of this product and aromatics are not of concern with this component.

Prolonged skin contact with the solvent blend can cause defatting and irritation and the limonene component is a known skin sensitizer. Dermatitis may result from prolonged skin contact.

Eyes:

Product is an acute eye irritant. No long term effects are expected.

Skin:

Product defats skin and contains limonene which is a known skin sensitizer. Chronic long term direct exposure to skin can result in dermatitis and sensitization.

Ingestion:

Not a significant route of exposure. Not expected to result in any long term effects.

SAFETY DATA SHEET

Inhalation:

Product is of comparatively low volatility and is not expected to create a significant vapor hazard unless heated in some manner. Excessive exposure to vapor has narcotic effects but long term effects associated with the ethylene glycol ethers are not seen with the propylene glycol ethers.

12. ECOLOGICAL INFORMATION

<u>Species</u>	<u>Test Information</u>	<u>Concentration</u>	<u>Component</u>
Salmo gairdneri	LC50 OECD 203	100 - 180 mg/l	Propylene glycol monomethyl ether acetate
Daphnia magna	EC50 static	>500 mg/l - 48 h	Propylene glycol monomethyl ether acetate

PRODUCTS OF BIODEGRADATION:

Propylene glycol monomethyl ether acetate readily biodegraded with 28 day exposure (OECD 301F) - 83%
 Product is expected to be acutely toxic to aquatic life if the spill is significant but is biodegradable over time and does not appear to have lasting effects or bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of any waste in compliance with local, state, and federal regulations. Determine EPA RCRA waste categorization at the time of disposal as mixing with other materials may change its categorization. Containers may contain residue that needs to be addressed at time of disposal. Recycling containers needs to address any remaining residues.

14. TRANSPORT INFORMATION

The following proper shipping name, hazard class and packing group are in accordance to 49 CFR Department of Transportation (U.S. DOT) regulatory requirements from 172.101 Hazardous Materials Table

49 CFR Shipping Information	EasiSolv 120
Symbols	"G" - identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description. See 172.203(k).
UN Number	UN1993
Proper Shipping Name	Flammable liquids, n.o.s (Propylene glycol methyl ether esters)
Hazard Class	3
Packing Group	III
Label Codes	3
Special Provisions (172.102)	B1, B52, IB3, T4, TP1, TP29

SAFETY DATA SHEET

Packaging - Exceptions	173,15
Packaging - Nonbulk	173,203
Packaging - bulk	173,242
Quantity Limitations - Passenger aircraft/rail	60 L
Quantity Limitations - Cargo aircraft only	220 L
Vessel stowage - Location	"A" - The material may be stowed on deck or under deck on a cargo vessel and on a passenger vessel.
Vessel stowage - Other	Blank

INTERNATIONAL AIR TRADE ASSOCIATION (IATA)

IATA 58th Edition Information	EasiSolv 120
UN Number	UN1993
Proper Shipping Name Description	Flammable liquid, n.o.s. (Propylene glycol methyl ether esters)
Class or Division	3
Hazard Label(s)	Flammable liquid
Packing Group	III
EQ - 2.6 Dangerous Goods in Excepted Quantities	E1
Passenger Aircraft - Limited Quantity Packing Instructions	Y344 - the general packing requirements of subsections 2.7.5, 5.0.2 to 5.0.4 (with the exception of 5.0.2.3, 5.0.2.5, 5.0.2.11 and 5.0.2.14.2) must be met except that the packagings do not have to meet the marking and testing requirements of 6.04 and 6.3. Packaging must meet the construction criteria specified in Subsections 6.1 and 6.2 and the test criteria specific in Subsection 6.6
Passenger Aircraft - Limited Quantity Max net Qty/Pkg	10 L
Passenger Aircraft - Packing Instructions	355 - the general packing requirements of 5.0.2 must be met. Substances must be compatible with their packagings as required by 5.0.2.6. Closures must meet the requirements of 5.0.2.7.
Passenger Aircraft - Quantity Max Net Qty/Pkging	60 L
Cargo Aircraft only - Packing Instructions	366 - The general packing requirements of 5.0.2 must be met. Substance must be compatible with their packagings as required by 5.0.2.6. Closures must meet the requirements of 5.0.2.7.
Cargo Aircraft only - Max Net Qty/Pkging	220 L
Special Provisions 4.4	Blank
ERG Code	3 L

INTERNATIONAL MARITIME DANGEROUS GOODS CODE (IMDG CODE)

IMDG 2016 EDITION	EasiSolv 120
UN Number	UN1993
Proper Shipping Name Description	FLAMMABLE LIQUID, N.O.S.
Class or Division	3
Subsidiary Risks	Blank

SAFETY DATA SHEET

Packing Group	III
Special Provisions	223, 274, 955
Limited Quantities	5L
Excepted Quantities	E1
Packing Instructions	P001, LP01
Packing Provisions	Blank
IBC Instructions 4.1.4	IBC03
IBC Provisions 4.1.4	Blank
Portable tanks and bulk containers - tank instructions	T4
Portable tanks and bulk containers - provisions	TP1, TP29
EmS	F-E, S-E
Stowage and Handling	Category A - on deck or under deck for cargo ships or passenger ships carrying passengers limited to 25 or 1 per 3 m of overall length.
Segregation	Blank
Properties and observations	Blank

15. REGULATORY INFORMATION

Chemical Inventory Status

Ingredients listed on: TSCA, DSL, Japan, and EC inventories.

SARA Section 302 - Emergency Planning Notification -

SARA Section 304 - Emergency Release Notification - None

SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - Delayed (chronic) health hazard, fire hazard

CERCLA - Hazardous Substance -

RCRA Hazardous Waste Classification - Flammable Waste

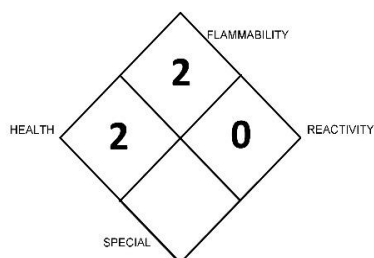
California Proposition 65:

No components known to the state of California to cause cancer and/or reproductive harm.

16. OTHER INFORMATION

UNITED STATES NATIONAL FIRE PROTECTION ASSOCIATION (U.S. NFPA)

NFPA 704 "fire diamond" is used by emergency personnel to quickly identify the risks posed by the material during response to a fire or a spill or other unusual event.



NFPA rating explanation as applied to EasiSolv 120

FLAMMABILITY 2 - Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur. Flash point between 37.8 C/ 100 F and 93.3 C/200 F.

HEALTH 2 - Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.

REACTIVITY 0 - Normally stable, even under fire exposure conditions, and is not reactive with water.

SAFETY DATA SHEET

SPECIAL - contains special symbols applicable to the material. In this case there are no applicable special conditions.

EasiSolv 120	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

HEALTH -	2 - Temporary or minor injury may occur.
FLAMMABILITY-	2 - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F/ 38 C but below 200 F/93 C.
REACTIVITY-	0-Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Nonexplosives.
PERSONAL PROTECTION-	Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

CREATION/REVISION SUMMARY:

Revised on May 24, 2019
 Reformatted and reviewed

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