

SAFETY DATA SHEET



SDS No.: 3
Revision Date: February 29, 2024
Date Created: September 14, 2015

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: EasiSolv 401N Squeegee & Floodbar Wash
General Use: Cleaner
Product Description: Water White Liquid

MANUFACTURER

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

sales@easiway.com

EMERGENCY TELEPHONE NUMBER:

(800)-424-9300 CHEMTREC USA & CANADA
+1(703)-741-5970 CHEMTREC INTERNATIONAL

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

GHS CLASSIFICATION OF SUBSTANCE

Flammable Liquid	Not Rated Under GHS
Aspiration Toxicity	Not Rated Under GHS
Skin Corrosion/Irritation	Category 2
Eye Corrosion/Irritation	Category 1
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Not Rated Under GHS
Specific Organ Toxicity Single Exposure	Category 3 - Narcotic Effects
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.

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GHS LABEL ELEMENTS



DANGER

Hazard Statements

H336 - May cause drowsiness or dizziness

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements

General:

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

P103-Read label before use.

Prevention:

P260 - Do not breathe fume, mist, vapors

P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear eye protection, face protection, protective clothing, protective gloves

Response:

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P317 - Get medical help if eye irritation persists.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>wt%</u>	<u>CAS Registry #</u>
Tri(propylene glycol) methyl ether, mixture of isomers	20 - 25	25498-49-1
Di(propylene glycol) butyl ether, mixture of isomers	18 - 21	29911-28-2
Di(propylene glycol) methyl ether acetate, mixture of isomers	12 - 16	88917-22-0
Dimethyl glutarate	2- 3.5	1119-40-0
Dimethyl succinate	<1 - 1.5	106-65-0
Dimethyl Adipate	<1 - 1.5	627-93-0
Alcohols, C12-14-secondary, ethoxylated	10 - 11	84133-50-6
Poly(ethylene oxide)	<0.5	25322-68-3
Water	balance	

4. FIRST AID MEASURES

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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.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200 F/93 C
Flammable Limits: Not Determined
Autoignition Temperature: Not Determined

GENERAL HAZARD:

Product has a high flash point but contains a substantial amount of organic solvents that will fuel a fire if one is already underway.

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.

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:

Material is miscible with water and is expected to mix immediately with the water body. Collection will be difficult but

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restrict transfer to the localized spill area in the case of a large spill (many gallons) by diking or other means as this product is aquatically toxic.

INDOOR SPILL:

Dike the spill with noncombustible spill socks, shut down any circulatory ventilation in the area and maintain any exhaust ventilation. Seal any floor drains that might capture spillage. Cordon off the area and absorb spilled material with noncombustible adsorbents. Personnel responding to the spill should wear saran protective suit, respiratory protection, and gloves.

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 liquids with secondary spill containment. Remaining residue in empty containers may present a fire hazard. Avoid breathing mist or vapor.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200 and other agencies)

Component	EXPOSURE LIMITS 8 hrs TWA (ppm)				
	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL	Other
Dipropylene Glycol Methyl Ether Acetate	None Established	None Established	100 ppm	50 ppm*	0.08 mg/m ³ is suggested interim REL for 8 hr exposure
Tripropylene Glycol Monomethyl Ether	None Established	None Established			
Dipropylene Glycol butyl ether	None Established	None Established			
Dimethyl Glutarate	None Established	None Established			
Dimethyl Succinate	None Established	None Established			
Dimethyl Adipate	None Established	None Established			
Ethylene glycol butyl ether	50 ppm	20 ppm			
Alcohols, C12-14,secondary ethoxylated	None Established	None Established			
Poly(ethylene oxide)	None Established	None Established		10 mg/m ³ aerosol	

* - Exposure limit for a similar compound

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

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routine use by personnel using the material.

PERSONAL PROTECTION:

Personal protective equipment should be selected based on an assessment of risk of exposure as uses and conditions of use vary and there is no single PPE scenerio that fits all. Even though this product is relatively non-volatile and under most uses airborne levels are very low, there may be conditions where the product is sprayed and exposure is to aerosolized product with the potential for direct exposure to the product airborne liquid. In this situation respiratory and full body protection may be appropriate. Conditions where the worker uses the product where the amount is small or contained in some manner such that full body contact is not a hazard consideration, protective gloves (NOTE: nitrile gloves are a general purpose glove available in a wide variety of thicknesses and protect against most chemicals) and safety glasses are the appropriate PPE.

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:	Not Determined	Vapor Density:	Heavier than air
Specific Gravity:	0.99 gm/cc	Evaporation Rate:	Not Determined
Solubility in Water:	Not Determined but expected to miscible with water	Freezing Point:	Not Determined
pH:	Neutral	Odor:	Mild Solvent
Boiling Point:	Not Determined	Appearance:	Clear, Water White
Viscosity:	Not Determined	Physical State:	Liquid
Flash Point:	>200 F/93 C	Flammable Range:	Not Determined
		VOC content:	652 g/l (5.4 lbs/gal)

10. STABILITY AND REACTIVITY

GENERAL:

No dangerous reactions known under normal use conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids and strong oxidizers

HAZARDOUS DECOMPOSITION:

Carbon oxides, aldehydes, short chained organic compounds depending on temperature. Products of fire may be acidic and irritating to the respiratory tract.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

<u>Component</u>	<u>Acute Test</u>	<u>Value</u>	<u>Species</u>
Dimethyl succinate	LD50 oral	>5000 mg/kg	Rat

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Dimethyl adipate	LD50 oral	1920 mg/kg	Rat
Dimethyl glutarate	LC50 inhalation	6.1 mg/L 4 h	Rat
Dimethyl glutarate	LD50 oral	8191 mg/kg	Rat
Dipropylene glycol methyl ether acetate	LD50 oral	>5000 mg/kg	Not provided
Dipropylene glycol methyl ether acetate	LD50 dermal	>2000 mg/kg	Not provided
Dipropylene glycol methyl ether acetate	LC50 inhalation	>20 mg/L	Not provided
Dipropylene glycol butyl ether	LD50 oral	3160 mg/kg	Not provided
Dipropylene glycol butyl ether	LD50 dermal	>2,000 mg/kg	Not provided
Dipropylene glycol butyl ether	LC50 inhalation	>20 mg/L	Not provided
Alcohols, C12-C14-secondary, ethoxylated	LD50 oral	>3000 mg/kg	Rat
Alcohols, C12-C14-secondary, ethoxylated	LD50 dermal	>2000 mg/kg	Rabbit
Alcohols, C12-C14-secondary, ethoxylated	Eye	may cause moderate corneal injury	
Tripropylene glycol monomethyl ether	LD50 oral	>3400 mg/kg	Rat
Tripropylene glycol monomethyl ether	LD50 dermal	>15,440 mg/kg	Rat
Tripropylene glycol monomethyl ether	LC50 inhalation	>20 mg/L	Rat

ROUTES OF ENTRY:

Includes respiratory system, skin, and eyes. Intended use makes even accidental ingestion an unlikely route of exposure.

CHRONIC EFFECTS ON HUMANS:

Solvents can affect the respiratory system causing irritation and narcotic effects. The solvents present in this mixture are in the glycol ether family and are high molecular weight glycol ethers with high vapor pressures and less volatile than the lower molecular weight glycol ethers. These compounds are not known to have the effects the lower molecular weight glycol ethers have and are less likely to create high airborne vapor levels unless heated in some manner. The product will defat skin and cause redness and dryness if allowed to be on the skin for prolonged periods.

Glycol ethers suspected of causing harm to the reproductive system are *ethylene* glycol ether derivatives. No propylene glycol ethers are listed. Propylene glycol ethers have also not been found to damage red blood cells like ethylene glycol ethers.

Eyes:

Eye irritant. May cause moderate corneal injury if not immediately flushed out.

Skin:

Will defat skin causing irritation, dryness, and eventual dermatitis in susceptible individuals.

Ingestion:

Not a significant route of exposure for this product.

Inhalation:

Solvents in this blend are predominantly high molecular weight glycol ethers and have limited volatility at room temperature. Creating an aerosol or a mist in some manner enhances exposure creating a condition where a person could be exposed to airborne liquid droplets. Narcotic effects are expected to be short term.

12. ECOLOGICAL INFORMATION

<u>Species</u>	<u>Test Information</u>	<u>Concentration</u>	<u>Component</u>
Daphnia magna	EC50 - 48 hr	137 mg/L	Dibasic ester mix
Bluegill sunfish	LC50 - 96 hr	7.5 mg/L	Dibasic ester mix

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Algae	EC50 - 72 hr	46.9 mg/L	Dibasic ester mix
Daphnia magna	LC50	1090 mg/L	Dipropylene glycol methyl ether acetate
Green algae	EC50 - 96 hr	predicted	Dipropylene glycol methyl ether acetate
Fathead minnow	LC50 - 96 hr	1 - 10 mg/l	Undecan-1-ol, ethoxylated
Daphnia magna	EC50 - 48 hr	1 - 10 mg/l	Undecan-1-ol, ethoxylated
Algae	EC50 - 96 hr	1 - 10 mg/l	Undecan-1-ol, ethoxylated
Fish	LC50/EC50	1 - 10 mg/l	Alcohols, C12-14, ethoxylated
Daphnia magna	EC50 - 48 hr	3.1 mg/l	Alcohols, C12-14, ethoxylated

PRODUCTS OF BIODEGRADATION:

Components readily biodegrade and products of biodegradation are less toxic than the chemicals, themselves.

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 401N
Symbols	"G" - identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parantheses, in association with the basic description. See 172.203(k).
UN Number	NA
Proper Shipping Name	NA
Hazard Class	NA
Packing Group	NA
Label Codes	NA
Special Provisions (172.102)	NA
Packaging - Exceptions	NA
Packaging - Nonbulk	NA
Packaging - bulk	NA
Quantity Limitations - Passenger aircraft/rail	NA
Quantity Limitations - Cargo aircraft only	NA
Vessel stowage - Location	NA
Vessel stowage - Other	NA

INTERNATIONAL AIR TRADE ASSOCIATION (IATA)

IATA 58th Edition Information	EasiSolv 401N
UN Number	NA
Proper Shipping Name Description	NA
Class or Division	NA
Hazard Label(s)	NA
Packing Group	NA
EQ - 2.6 Dangerous Goods in Excepted Quantities	NA

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Passenger Aircraft - Limited Quantity Packing Instructions	NA
Passenger Aircraft - Limited Quantity Max net Qty/Pkg	NA
Passenger Aircraft - Packing Instructions	NA
Passenger Aircraft - Quantity Max Net Qty/Pkging	NA
Cargo Aircraft only - Packing Instructions	NA
Cargo Aircraft only - Max Net Qty/Pkging	NA
Special Provisions 4.4	NA
ERG Code	NA

INTERNATIONAL MARITIME DANGEROUS GOODS CODE (IMDG CODE)

IMDG 2016 EDITION	EasiSolv 401N
UN Number	NA
Proper Shipping Name Description	NA
Class or Division	NA
Subsidiary Risks	NA
Packing Group	NA
Special Provisions	NA
Limited Quantities	NA
Excepted Quantities	NA
Packing Instructions	NA
Packing Provisions	NA
IBC Instructions 4.1.4	NA
IBC Provisions 4.1.4	NA
Portable tanks and bulk containers - tank instructions	NA
Portable tanks and bulk containers - provisions	NA
EmS	NA
Stowage and Handling	NA
Segregation	NA
Properties and observations	NA

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 - 2-Butoxyethanol

SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - Immediate (acute) health hazard

CERCLA - Hazardous Substance -

RCRA Hazardous Waste Classification - None

California Proposition 65:

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

16. OTHER INFORMATION

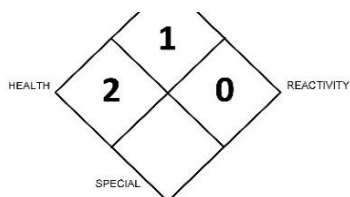
UNITED STATES NATIONAL FIRE PROTECTION ASSOCIATION (U.S. NFPA)

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 401N

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FLAMMABILITY 1 - Materials that require considerable preheating, under all ambient temperature before ignition can occur. Flash point at or above
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.
SPECIAL - contains special symbols applicable to the material. In this case there are no applicable special conditions.

CREATION/REVISION SUMMARY:

Created on:

14-Sep-15

June 7, 2019 revision is a complete review of the information and a reformat of the SDS

February 29, 2024 is chemical substitution of surfactant.

Cheryl Sykora, CIH, CSP, CHMM, SDSRP

Registered Specialist, SDS and Label Authoring #118534
LEGEND TECHNICAL SERVICES, INC.

88 Empire Drive, Saint Paul, Minnesota 55103
651-221-4085

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