SAFETY DATA SHEET

SDS No.:
Revision: March 13,2023
Date Created: January 31, 2023

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **EasiSolv 991 Screen Wash**
General Use: **Ink Remover**
Product Description: **Colorless Liquid**

MANUFACTURER
Easiway Systems, Inc.
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Easiway Systems Contract Number **MIS3609005**

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
Skin Sensitization	Not Rated Under GHS
Eye Corrosion/Irritation	Category 2
Carcinogenicity	Not Rated Under GHS
Specific Organ Toxicity Repeated Exposure	Not Rated Under GHS
Specific Organ Toxicity Single Exposure	Category 3
Reproductive Toxicity	Not Rated Under GHS
Acute Toxicity	Category 4
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.

GHS LABEL ELEMENTS



Hazard Statements
H319 - Causes serious eye irritation
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H302 - Harmful if swallowed

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:
P301+P312 - IF SWALLOWED: Call POISON CENTER/doctor/physician if you feel unwell.
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.
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

Component	wt%	CAS Registry #
Dibasic Ester	30 - 50	1119-4-0;106-65-0; 627-93-0
Diethylene Glycol Butyl Ether	15 - 30	112-34-5
2-Butoxyethanol	5 - 13	111-76-2
Polyoxyethylenealkylether	1 - 3	84133-50-6
Benzyl Benzoate	<1	120-51-4
3-Ethoxy-4-Hydroxybenzaldehyde	<0.1	121-32-4
Piperonal	<0.01	120-57-0
Methanol	<0.5	67-56-1

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.

5. FIRE FIGHTING MEASURES

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

GENERAL HAZARD:
Product contains organic components that could fuel an existing fire creating noxious gases.

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 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.

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)

	EXPOSURE LIMITS 8 hrs TWA (ppm)				
Component	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL	Other
2-Butoxyethanol	50 ppm	20 ppm	NE		
2-(2-butoxyethoxy)ethanol	NE	10 ppm	NE		
Methanol	200 ppm	200 ppm	200 ppm		

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. Product contains solvents which have some volatility but most activities are not likely to create sufficient airborne levels to exceed exposure limits and trigger the use of respiratory protection. Indoor spills may require the use of respiratory protection if sufficiently large.

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:	No Data Available	**Vapor Density:**	Not Determined
Specific Gravity:	1.03	**Evaporation Rate:**	Not Determined
Solubility in Water:	insoluble	**Freezing Point:**	Not Determined
		Odor:	Mild
pH:	Not water based; but neutral	**Appearance:**	Clear
Boiling Point:	Not Determined	**Physical State:**	Liquid
Viscosity:	Not Determined	**Flammable Range:**	No Data Available
Flash Point:	>200 F	**VOC content:**	814 gm/L

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, short chained organic compounds depending on temperature.

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

Component	Acute Test	Value	Species
Dimethyl adipate	LC50(4hr)	11 mg/L air	Rat
Dimethyl adipate	LD50	2000 mg/kg bw	Rat
Dimethyl adipate	NOEC	10 - 50 mg/m^3	Rat
Dimethyl succinate	LD50	892 mg/kg bw	Rat
Dimethyl succinate	LC0(4hr)	5.9 mg/L	Rat
Dimethyl glutarate	LD50	5000 mg/kg bw	Rat
Dimethyl glutarate	LC50(4hr)	11 mg/L air	Rat
Dimethyl glutarate	LD50 dermal	2000 mg/kg bw	Rat
Dimethyl glutarate	NOEC inhalation	10 - 50 mg/m3	Rat
2-(2-butoxyethoxy)ethanol	DNEL respir - long	67.5 mg/m^3	
2-(2-butoxyethoxy)ethanol	DNEL respir - acute	101.2 mg/m^3	
polyoxyethylenealkylether	LD50 oral	2600 mg/kg	Rat
polyoxyethylenealkylether	LD50 dermal	2000 mg/kg	Rat
polyoxyethylenealkylether	EU R41 eye	1 in 3 corneal opacity not reversed in 21 days	Rabbit
2-butoxyethanol	DNEL long term	98 mg/m^3	
2-butoxyethanol	DNEL short term	1,091 mg/m^3	

ROUTES OF ENTRY:
Primary route of entry is through the eye. Some skin irritation expected if left on bare skin for a length of time.

CHRONIC EFFECTS ON HUMANS:
None expected. Main components are not on IARC or other lists of cancer causing chemicals.

Eyes:
Serious eye irritant and can cause irreversible damage if first aide procedures are not followed and the product immediately washed out of the eye.

Skin:
Product contains organic solvents that will defat skin causing some irritation if left on the skin for a prolonged period of time.

Ingestion:
Not a serious route of exposure and depends on the volume ingested. Contains a low level of methanol that is orally toxic but consumption is not expected to be to a volume where the methanol would be an issue.

Inhalation:
If inhalation is high, it is expected to cause dizziness and narcotic effects.

12. ECOLOGICAL INFORMATION

Species	Test Information	Concentration	Component
Aquatic Invertebrates	EC50 (48 hr)	72 mg/L	Dimethyl Adipate
Aquatic Algae and Cyanobacteria	EC50(72 hr)	100 mg/L	Dimethyl Adipate
Aquatic Algae and Cyanobacteria	NOEC (72 hr)	12.5 mg/L	Dimethyl Adipate
Aquatic Invertebrates	EC50(48 hr)	100 mg/L	Dimethyl Succinate
Aquatic Algae and Cyanobacteria	EC50(4 days)	254.4 mg/L	Dimethyl Succinate
Aquatic Algae and Cyanobacteria	NOEC (72 hr)	100 mg/L	Dimethyl Succinate
Microorganisms	EC50(3 hr)	1000 mg/L	Dimethyl Succinate
Aquatic Algae and Cyanobacteria	NOEC (72 hr)	36 mg/L	Dimethyl glutarate
Aquatic Algae and Cyanobacteria	LOEC (72 hr)	85 mg/L	Dimethyl glutarate
Algae and Cyanobacteria	EC50(4days)	100 mg/L	2-(2-butoxyethoxy)ethanol
Aquatic Invertebrates	EC50(48 hr)	100 mg/L	2-(2-butoxyethoxy)ethanol
Microorganisms	EC10(30min)	1,995 mg/L	2-(2-butoxyethoxy)ethanol
Fish	LC50 (48 hr)	3.3 mg/L	polyoxyethylenealkylether
Crustacea	LC50 (48 hr)	>1.0 mg/L	polyoxyethylenealkylether
Fish	NOEC(21 days)	100 mg/L	2-butoxyethanol
Aquatic Invertebrates	NOEC(21 days)	100 mg/L	2-butoxyethanol
Aquatic Algae and Cyanobacteria	NOEC(72 hrs)	62.5 - 286 mg/L	2-butoxyethanol

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 991
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 991
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
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 991

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 - None
SARA 311/312 - Hazard categories for SARA Section 311/312 Reporting - Acute Health Hazard

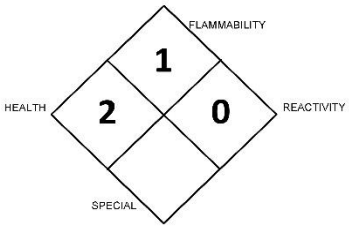
CERCLA - Hazardous Substance - NA
RCRA Hazardous Waste Classification - None

California Proposition 65:
Methanol, a trace component of one of the ingredients, is on the list as a developmental toxicant.

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.

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NFPA rating explanation as applied to EasiSolv 991

FLAMMABILITY 1 - Materials that require considerable preheating, under all ambient temperature before ignition can occur. Flash point at or above 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.

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

EasiSolv 991	
HEALTH	**2**
FLAMMABILITY	**1**
PHYSICAL HAZARD	**0**
PERSONAL PROTECTION	**H**

HEALTH -	2 - Temporary or minor injury may occur.
FLAMMABILITY-	1 - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 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:

Created on:
31-Jan-23

Revised on March 13, 2023 removed propylene glycol from the formulation; no substantial changes to hazards of the product.

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