SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking

1.1. Product Identifier

Substance name	:	Xylene, Mixture of Isomers
IUPAC name	:	No Applicable
EC Index-No.	:	601-022-00-9
EC-No.	:	215-535-7
CAS-No.	:	1330-20-7
REACH registration No	:	01-2119488216-32-xxxx
Type of product	:	Isomer mixture, Group
Formula	:	C_8H_{10}
Synonyms	:	benzene, dimethyl-/ dimethylbenzene, mixture of isomers / dimethylbenzol, mixture of isomers / methyitoluene, mixture of isomers / mixed xylenes / xilenos / xylene / xylene, mixed isomers, pure / xylenes / Xylenes /xylol/ xylol, mixture of isomers
BIG no	:	10942

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

1.2.1. Relevant Identified Uses

Use of the substance/mixture	:	Solvent Cleansing product Chemical raw material

1.3. Details of the Distributor of the Safety Data Sheet

Company Name	:	GreenSol Limited
Address	:	#39-41 Marryat Street, San Fernando, Trinidad, West Indies
Telephone	:	+1(868) 225-4858
Mobile	:	+1(868) 720-2517
Email	:	sdeokiesingh@greensolltd.com

1.4. Emergency Telephone Number

Emergency Number	:	+1(868) 720-2517 (GREENSOL)
	:	+1(800) 424-9300 (CHEMTREC)

SECTION 2: Hazard Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	:	H226
Acute toxicity (inhal.), Category 4	:	H332
Acute toxicity (dermal), Category 4	:	H312
Skin corrosion/irritation, Category 2	:	H315

Full text of H statements: see section 16

2.2. Label Elements

Hazard Pictogram :

GHS07

GHS02

Signal Word : **WARNING**

Hazard Statement : H226 - Flammable liquid and vapour H315- Causes skin irritation H312- Harmful in contact with skin H336 - May cause drowsiness or dizziness

Precautionary Statement : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P264-Wash hands thoroughly after handling
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P332+P313- If skin irritation occurs: Get medical advice/attention
P403 - Store in a well-ventilated place P235 - Keep cool

2.3. Other Hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition / Information on Ingredients

3.1. Substances

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene, mixture of isomers	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32-xxxx	100	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2. H315

Full text of H-statements: see section 16

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures

First-aid measures general	:	Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.
First-aid measures after inhalation	:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	:	Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	:	Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures ingestion	:	Rinse mouth with water. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/effects after inhalation	:	EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Central nervous system depression. Dizziness. Headache. Coordination disorders. Disturbed motor response. Impaired memory. Disturbances of consciousness.
Symptoms/effects after skin contact	:	Tingling/irritation of the skin.
Symptoms/effects after eye contact	:	Irritation of the eye tissue.
Symptoms/effects after ingestion	:	AFTER ABSORPTION OF HIGH QUANTITIES: Enlargement/affection of the liver. Symptoms similar to those listed under inhalation.
Chronic symptoms	:	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Itching.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	:	Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.
Unsuitable Extinguishing Media	:	Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Fire Hazard	:	DIRECT FIRE HAZARD. Flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion Hazard	:	DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD, may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Advice for Firefighters

Precautionary Measures Fire	:	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	:	Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	:	Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1. For Non-emergency responders

Protective equipment	:	Gloves. Face-shield. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	:	Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. In case of reactivity hazard: consider evacuation.

6.2. Environmental Precautions

Prevent spreading in sewers.

6.3. Methods and Material for Containment and Cleaning up

For Containment	:	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills. Heating: dilute combustible gas/vapour with water curtain.
Methods for Cleaning Up	:	Take up liquid spill into a non-combustible material e.g., sand, earth, vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the

spill/leftovers. Spill must not return in its original container. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

SECTION 7: Handling & Storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Heat and Ignition Sources	:	KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on Mixed Storage	:	KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids. halogens. highly flammable materials.
Storage Area	:	Store in a cool area. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect
Special Rules on Packaging	:	SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging Materials	:	SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.

SECTION 8: Exposure Controls / Personal Protection

8.1. Control Parameters

Xylene, Mixture of Isomers (1330-20-7)

EU	Local name	Xylene, mixed isomers, pure
EU	IOELV TWA (mg/m³)	221 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m³)	442 mg/m³
EU	IOELV STEL (ppm)	100 ppm

EU	Notes	Skin

DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	289 mg/m³
Acute - local effects, inhalation	289 mg/m³
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	77 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	174 mg/m³
Acute -local effects, inhalation	174 mg/m²
Long-term - systemic effects, oral	1,6 mg/kg bodyweight/day
Long-term - systemic effects, dermal	108 mg/kg bodyweight/day
Long-term - local effects, inhalation	14,8 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,327 mg/l
PNEC aqua (marine water)	0,0327 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	12,46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,31 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	6,58 mg/l

8.2. Exposure Controls

Materials for Protective Clothing : GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: PVA. viton. tetrafluoroethylene. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: butyl rubber. natural rubber. neoprene. polyethylene. nitrile rubber

Hand protection : Gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, Disposable gloves	Polyvinylalcohol (PVA)	6 (> 480 minutes)	0.7		
Reusable gloves, Disposable gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.6		

Eye protection : Face shield

Type	Use	Characteristics	Standard
Safety glasses		With side shields	

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear gas mask with filter type A if conc. in air > exposure limit

SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Appearance	:	Liquid
Molecular Mass	:	106,17 g/mol
Colour	:	Colourless to light yellow
Odour	:	Pleasant odour. Aromatic odour
Odour Threshold	:	No Data Available
pH	:	No Data Available
Relative Evaporation Rate (butyl acetate=1)	:	No Data Available
Melting Point	:	No Data Available
Freezing Point	:	No Data Available
Boiling Point	:	135-145 °C
Flash Point	:	25°C
Auto-ignition temperature	:	464 °C
Decomposition temperature	:	No Data Available
Flammability (solid, gas)	:	No Data Available
Vapour Pressure	:	6,7-8,7 hPa (20 °C)
Relative vapour density at 20 °C	:	3,7
Relative Density	:	0,86-0,88
Density	:	861-880 kg/m³
Solubility	:	Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in petroleum spirit. Water: < 0,02 g/100ml Ethanol: Complete Ether: Complete
Log Pow	:	3,2 (Conclusion by analogy; 20 °C)
Viscosity, Kinematic	:	No Data Available
Viscosity, Dynamic	:	No Data Available
Explosive Properties	:	No Data Available
Oxidising Properties	:	No Data Available
Explosive Limits	:	1.0-7.0 vol % 44-310 g/m³

9.2. Other Information

Minimum ignition energy	:	0,2 mJ
Specific conductivity	:	0,1 pS/m
Saturation concentration	:	(20°C) 29/37
VOC content	:	100%

Other properties	:	Gas/vapour heavier than air at 20°C. Clear. Physical properties depending on the composition. Slightly volatile. May generate electrostatic charges.

SECTION 10: Stability and Reactivity

Reactivity	:	Upon combustion: CO and CO2 are formed. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Reacts with (some) acids.
Chemical Stability	:	Stable under normal conditions.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Minimum ignition energy	:	0,2 mJ
Acute Toxicity	:	Inhalation: Harmful if inhaled. Dermal: Harmful in contact with skin.

xylene, mixture of isomers (1330-20-7)

LD50 Oral Rat	:	3523-8600 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 3523 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; >4000 mg/kg п bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 Dermal Rabbit	:	> 4200 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
Skin corrosion/irritation	:	Causes skin irritation.
IARC group	:	3

SECTION 12: Ecological Information

12.1. Toxicity

Ecology – general	:	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC.
Ecology - water	:	Fouling to shoreline. Groundwater pollutant. Toxic to fish. Toxic to invertebrates (Daphnia). Toxic to algae. Not harmful to activated sludge.
Ecology - air	:	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5/1.

12.2. Persistence and Degradability

Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photolysis in the air.

12.3. Bio accumulative potential

BCF fish 2	:	7-26 (BCF; 8 weeks; Oncorhynchus mykiss; Flow-through system; Fresh water)
Log Pow	:	3,2 (Conclusion by analogy; 20 °C)
Bioaccumulative potential	:	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in Soil

Ecology - soil	:	May be harmful to plant growth, blooming and fruit formation.

12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Waste Disposal Recommendations	:	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Do not discharge into surface water.
Additional information	:	LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive 2008/98/EC.
European List of Waste (LoW) code	:	07 01 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transportation Information

In accordance with ADR/ IMDG/ IATA/AND/RID

14.1. UN Number

1307	1307	1307	1307	1307

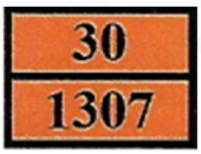
14.2. UN Proper Shipping Name

Xylenes	XYLENES	Xylenes	XYLENES	XYLENES

14.3. Transport Document Description

UN 1307 Xylenes, 3, III, (D/E)	UN 1307 XYLENES, 3, III	UN 1307 Xylenes, 3, III	UN 1307 XYLENES, 3, III	UN 1307 XYLENES, 3, III
14.4. Transport Hazard Class (es)				
3	3	3	3	3
				
14.5. Packing Group				
III	III	III	III	III
14.6. Environment Hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: NO
14.7. Special Precautions for User				

-Overland Transport

Transport regulations (ADR)	:	Subject
Classification code (ADR)	:	F1
Limited quantities (ADR)	:	5l
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T2
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Tunnel restriction code (ADR)	:	D/E
EAC code	:	3YE
Orange plates	:	

-Transport by Sea

Transport regulations (IMDG)	:	Subject
Special provisions (IMDG)	:	223
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E 1
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	TP1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	A
Flash point (IMDG)	:	23A°C to 30Ã°C c.c.
Properties and observations (IMDG)	:	Colourless liquids. Flashpoint: 23°C to 30°C c.c. Explosive limits: 1.1% to 7% Immiscible with water.

-Air Transport

Transport regulations (IATA)	:	Subject to the provisions
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L

-Inland Waterway Transport

Classification code (ADN)	:	F1
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E 1
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	0

-Rail Transport

Transport regulations (RID)	:	Subject
Classification code (RID)	:	F1
Limited quantities (RID)	:	5 L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T2
Portable tank and bulk container special provisions (RID)	:	TP1

Tank codes for RID tanks (RID)	:	LGBF
LGBF Transport category (RID)	:	3
Special provisions for carriage - Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE4
Hazard identification number (RID)	:	30

14.8. Transport in Bulk According to Annex II of Marpol and the IBC Code

Not Applicable

SECTION 15: Regulatory Information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
xylene, mixture of isomers is not on the REACH Candidate List
VOC content: 100%

15.2. Chemical Safety Assessment

No additional information available

SECTION 16: Other Information

Abbreviations and acronyms:

Unsuitable Extinguishing Media	:	Solid water jet ineffective as extinguishing medium.
ADN	:	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	:	Acute Toxicity Estimate
BCF	:	Bioconcentration factor
CLP	:	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	:	Derived Minimal Effect level
DNEL	:	Derived-No Effect Level
DPD	:	Dangerous Preparations Directive 1999/45/EC
DSD	:	Dangerous Substances Directive 67/548/EEC
EC50	:	Median effective concentration
IARC	:	International Agency for Research on Cancer
IATA	:	International Air Transport Association
IMDG	:	International Maritime Dangerous Goods
LC50	:	Median lethal concentration

LD50	:	Median lethal dose
LOAEL	:	Lowest Observed Adverse Effect Level
NOAEC	:	No-Observed Adverse Effect Concentration
OECD	:	Organisation for Economic Co-operation and Development
PBT	:	Persistent Bioaccumulative Toxic
NOAEL	:	No-Observed Adverse Effect Level
NOEC	:	No-Observed Effect Concentration
PNEC	:	Predicted No-Effect Concentration
REACH	:	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	:	Regulations concerning the International Carriage of Dangerous Goods by Rai
SDS	:	Safety Data Sheet
STP	:	Sewage treatment plant
TLM	:	Median Tolerance Limit
vPvB	:	Very Persistent and Very Bioaccumulative

Full text of H-and EUH-statements:

Acute Tox. 4 (Dermal)	:	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	:	Acute toxicity (inhal.), Category 4
Flam. Liq. 3	:	Flammable liquids, Category 3
Skin Irrit. 2	:	Skin corrosion/irritation, Category 2
H226	:	Flammable liquid and vapour
H312	:	Harmful in contact with skin
H315	:	Causes skin irritation
H332	:	Harmful if inhaled

Notice to Reader:

This SDS provides the information contained in this document in good faith but makes no representation as to its accuracy. This document is intended solely to guide the safe handling of the material by a properly trained individual. The final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with caution. Although some hazards are described, it cannot be guaranteed that these are the only hazards that exist.

Version	Date of Change	Change Description	Responsible Person
2.2	13-06-2025	Updated to supplier SDS Rev. 2.2	Laboratory Coordinator