

SAFETY DATA SHEET

EasySeal™, Satin **Revision Date** 6/6/2021

Category 1

STOT Repeat Exposure

P391

H372

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION SECTION - 1

Product Name Item EasySeal™, Satin

Product Use Concrete Sealer

Company Name Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

SECTION - 2 **HAZARDS INFORMATION**

Pictogram









Signal Word

Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

HAZARD CATEGORY CLASSIFICATION CODE Flammable liquid and vapor Flammable Liquids H226 Category 3 May be fatal if swallowed and enters airways Category 1 Aspiration Toxicity H304 Skin (Corrosion / Irritation) Causes skin irritation Category 2 H315 Category 1 Sensitization (Skin) H317 May cause an allergic skin reaction Category 2A Eye (Damage / Irritation) H319 Causes serious eye irritation STOT Single Exposure H335 Category 3 May cause respiratory irritation Category 3 STOT Single Exposure H336 May cause drowsiness or dizziness H351 Suspected of causing cancer Category 2 Carcinogenicity Toxic To Reproduction Suspected of damaging fertility or the unborn child Category 2 H361 Category 2 Acute Toxicity (Aquatic) H401 Toxic to aquatic life Category 2 Chronic Toxicity (Aquatic) H411 Toxic to aquatic life with long lasting effects Category 2 STOT Single Exposure H371 May cause damage to organs brain (neurological), central nervous system

Causes damage to organs through prolonged or repeated exposure auditory system, central nervous system, hematopoietic system (blood forming),

kidneys, liver, respiratory system

Collect spillage

Precautions	HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL	CODE
i iccaulions	HANDLING / FROTECTION / FIRE / STOKAGE / DIST OSAL	CODE

Keep out of reach of children	P102
Obtain special instructions before use	P201
Do not handle until all safety precautions have been read and understood	P202
Keep away from heat / sparks / open flames / hot surfaces – No smoking	P210
Keep container tightly closed	P233
Ground / bond container and receiving equipment	P240
Use explosion-proof electrical / ventilating / lighting /or /equipment	P241
Use only non-sparking tools	P242
Take precautionary measures against static discharge	P243
Avoid breathing dust / fume / gas / mist / vapours / spray	P261
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Use only outdoors or in a well-ventilated area	P271
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280
In case of inadequate ventilation wear respiratory protection	P285
In case of fire: Use dry chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials	P370+P378

P403+P405+P233+P235 Store in a well-ventilated place, Store locked up, Keep container tightly closed, Keep cool

Dispose of material in accordance with all State and Federal Guidelines and Regulations P501 Page 2 of 6 EasySeal™, Satin Revision Date 6/6/2021

SECTION – 3 COMPOSITION	INFORMATION	(Exact percentage	ge of the listed chemicals of composition has been withheld as a	trade secret)
CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS#	<u>IMPURITIES</u>	PERCENT
Acrylic Resin-Poly Based		28262-63-7	Methyl Methacrylate ; n-Butyl Methacrylate ; Methacrylic Acid	10 - 50%
Xylenes	Xylol; Methyl Toluene; Dimethylbenzene	1330-20-7	Ethylbenzene < 30%; Benzene < 0.1%; Toluene < 0.1%	10 - 90%
Light Aromatic Solvent Naphtha	Solvent naphtha (petroleum) light aromatic	64742-95-6	1,2,4-Trimethylbenzene < 27%; Cumene < 2% m-Ethyltoluene < 15%; 1,3,5-Trimethylbenzene < 7% 1-Ethyl-2-Methylbenzene < 9%; p-Ethyltoluene < 7%	10 - 90%

SECTION – 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact

lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid

Skin Contact Wash contaminated skin with plenty of soap and water, Remove any contaminated clothing and wash before

reuse, If irritation is present or occurs obtain medical attention

Inhaled Not applicable under normal use. If irritation is experienced, move person to fresh air

Ingested DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or

poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep

head below hips to prevent aspiration into the lungs

Aspiration Hazard Aspiration into the lungs can cause severe lung damage and is a medical emergency, If swallowed, vomiting may

occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into the lungs, Never give anything by mouth to an unconscious person. Call a physician or hospital emergency room immediately, If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible,

do not leave victim unattended and observe closely for adequacy of breathing

Important Effects Exposure can / may affect, auditory system, central nervous system, hematopoietic system (blood forming),

kidneys, liver, respiratory

Important Symptoms Symptoms Symptoms may include, auditory effects, central nervous system depression, liver or kidney irregulatories, blood

disorders, respiratory irritation

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media SUITABLE: Use DRY chemicals, CO2 or alcohol foam, Water spray to cool or protect exposed materials,

UNSUITABLE: Avoid using a water stream. Product will float upon water and could spread any fire

Explosion Hazard Flammable liquid and vapor, May flash or explode if ignited in an enclosed area, May form flammable or explosive

vapor-air mixture, Flashback along vapor trail may occur, Containers may explode or erupt during a fire when

heated excessively, Product will float and can be reignited on surface water

Hazardous Decomposition Burning or thermal decomposition can produce, aldehydes, carbon oxides, toxic fumes, unburned hydrocarbons

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria Flash point ≥ 23°C (73°F) and ≤ 37.8°C (100°F)

NFPA Class IC GHS Category 3 WHMIS Class B-2

NFPA HAZARD RATINGS

Health 2

Flammability 3

Reactivity ()

Special Hazards



SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel to move away and stay upwind from spill, Stop spill or release only if it can be done safely, Keep

unprotected personnel from entering the hazard area, Eliminate ignition sources and ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill, Contaminated

surfaces will be extremely slippery

Protective Equipment Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron, Rubber Boots

Containment Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent spill from entering the

environment, waterways, sewers, basements or confined areas

Clean Up Procedures Use sand or inert non-combustible absorbent pads or material. Collect product using non-sparking tools and place

into approved container for proper disposal

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations, Contact a licensed waste

disposal contractor for proper disposal

SECTION – 7 HANDLING AND STORAGE

Storage

Handling Keep away from incompatible materials, heat, sparks, electrical equipment, fire and all ignition sources, Do not get

in eyes, on skin, or clothing, or breathe mist, vapor or fumes, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Use only non-sparking tools, Avoid free fall of liquid, Ground containers when transferring, Empty containers are very hazardous, Do not flame

cut, saw or drill. Refer to NFPA-704 and/or API RP 2003 for specific bonding and grounding requirements

Keep container closed when not in use, Store in a cool, well-ventilated area and away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Store below 49°C (120°F) and in accordance with

Class IC Flammable Liquids (GHS Category 3)

Incompatible Materials Incompatible with, alkalies, amines, halogens, ketones, nitric acid, oxidizers, strong acids, strong reducing agents

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SECTION - 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Xylenes	100 ppm	150 ppm	100 ppm (435 mg/m³)	150 ppm (655 mg/m³)	100 ppm	150 ppm	RT,CNS
Acrylic Resin-Poly Based			(T Dust) 15 mg/m³	(R Dust) 5 mg/m³			RT,SS
1,2,4-Trimethylbenzene	25 ppm (125 mg/m³)						RT
Ethylbenzene	20 ppm		100 ppm (435 mg/m³)		100 ppm	125 ppm	RT,SA
Cumene	50 ppm		50 ppm (245 mg/m³)		50 ppm		SA, RT,CNS
Toluene	20 ppm		200 ppm	300 ppm	100 ppm	150 ppm	SA,CNS

PERSONAL PROTECTION

HMIS HAZARD RATINGS







Eyes Wear safety glasses or goggles or face shield when handling / using this material

Hands Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilation Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	33.8°C (92.9°F) - Pensky-Marten Closed Cup	Specific Gravity / Density	~ 0.919
Flammable Limits (v)	Lower: 1.2%, Upper: 6.8%	pH (± 0.3)	NA
Auto-Ignition Temp.	473°C (833°F)	Viscosity (mm ² s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Clear	Boiling Point	ND
Odor	Solvent	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 0.04%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 83%	Partition Coefficient	ND
VOC	< 83%	Molecular Weight (g/mol)	~ 100.68
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Heat sources, sparks, flame or static discharge and incompatible materials

Incompatible Materials Incompatible with, alkalies, amines, halogens, ketones, nitric acid, oxidizers, strong acids, strong reducing agents **Hazardous Decomposition** Burning or thermal decomposition can produce, aldehydes, carbon oxides, toxic fumes, unburned hydrocarbons

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Ingestion (Yes "Aspiration Hazard"), Inhalation (Yes)

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause serious eye irritation

Skin May cause allergic skin reaction, Can cause skin irritation

Inhalation Mist, vapor or fumes may cause, respiratory irritation, drowsiness or dizzinessIngestion May be fatal if swallowed and enters airways, Ingestion may affect target organs

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye irritation, redness, burning, or pain

Skin May cause allergic skin reaction, Causes skin irritation, defatting of the skin which may lead to dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation, drowsiness or dizziness, Can affect target organs, auditory

system, blood, liver, kidneys

Ingestion May be fatal if swallowed and enters airways, Ingestion can affect, liver, kidneys, blood, auditory system, central

nervous system, Symptoms may include, nausea, vomiting, abdominal pain, central nervous system depression, liver

or kidney irregulatories

Acute Tox Calculated Oral: > 5,000 mg/kg Dermal: > 2,000 mg/kg Inhaled: > 20 mg/kg

Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >20 mg/l) Vapors

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Target Organs Blood, Kidneys, Liver, Skin, Auditory System, Eyes, Respiratory System

Medical Conditions Preexisting, eye, skin, liver, kidney, central nervous system, blood, respiratory, hearing, disorders may be aggravated by

exposure to this product

Notes to Physician Contains petroleum distillates, vomiting may cause aspiration pneumonia

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	GHS Category
Ethylbenzene		A3 (Confirmed for animal)	2B (Possible for human)	2 (Suspected human)
Cumene	R (Anticipated to be)		2B (Possible for human)	2 (Suspected human)

MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u> <u>Germ Cell Mutagenicity</u> <u>Toxic to Reproduction</u>

Toluene 2 (Suspected of damaging fertility or the unborn child)

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Toluene	LD50	Oral	Rat	5,580 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	28.1 mg/l	4 Hours (Vapor)	(>20 mg/l)
	LC50	Dermal	Rabbit	12,196 mg/kg		(>2000 mg/kg)
Xylene (All Isomers)	LD50	Oral	Rat	4,300 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	21.7 mg/l	4 Hours (Vapor)	(>20 mg/l)
	LD50	Dermal	Rabbit	1,700 mg/kg		4 (>1000, ≤2000 mg/kg)
Ethylbenzene	LD50	Oral	Rat	3,500 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	17.2 mg/l	4 Hours (Vapor)	4 (>10, ≤20 mg/l)
	LD50	Dermal	Rat	15,433 mg/kg		(>2000 mg/kg)
1,2,4-Trimethylbenzene	LD50	Oral	Rat	5,000 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	18 mg/l	4 Hours (Vapor)	4 (>10, ≤20 mg/l)
	LD50	Dermal	Rabbit	> 3160 mg/kg		(>2000 mg/kg)
Cumene	LD50	Oral	Rat	2,260 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	12,300 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Mouse	17.5 mg/l	4 Hours (Vapor)	4 (>10, ≤20 mg/l)
Light Aromatic Solvent Naphtha	LD50	Oral	Rat	8,400 mg/kg		(>2000 mg/kg)
	LD50	Inhaled	Rat	20.48 mg/l	4 Hours (Vapor)	(>20 mg/l)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Acrylic Resin-Poly Based			No Data Available			

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	Ν	No	No D	No Da	No Dat	No Data	No Data	No Data A	No Data A	No Data Av	No Data Ava	No Data Ava	No Data Avai	No Data Availa	No Data Availa	No Data Availab	No Data Availabl

SECTION – 12 ECOLOGICA	L INFORMA [*]	TION			
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Toluene	LC50	Fish (Gambusia affinis)	10 to 100 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	LC50	Rainbow Trout (Oncorhynchus mykiss)	538 mg/l	96 Hours	4 (>100 mg/l)
	EC50	Water Flea (Daphnia magna)	6.56 mg/l	48 Hours	2 (>1, ≤10 mg/l)
Xylene (All Isomers)	EC50	Water Flea (Daphnia magna)	8.2 mg/l	96 Hours	2 (>1, ≤10 mg/l)
	LC50	Rainbow Trout (Oncorhynchus mykiss)	4 mg/l	96 Hours	2 (>1, ≤10 mg/l)
Ethylbenzene	EC50	Water Flea (Daphnia magna)	1.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)
1,2,4-Trimethylbenzene	EC50	Water Flea (Daphnia magna)	3.6 mg/l	48 Hours	2 (>1, ≤10 mg/l)
	LC50	Fathead Minnow (Pimephales promelas)	7.72 mg/l	96 Hours	2 (>1, ≤10 mg/l)
Cumene	LC50	Rainbow Trout (Oncorhynchus mykiss)	2.7 mg/l	96 Hours	2 (>1, ≤10 mg/l)
	EC50	Algae (Pseudokirchneriella S.)	2.6 mg/l	72 Hours	2 (>1, ≤10 mg/l)
	EC50	Water Flea (Daphnia magna)	10.6 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Light Aromatic Solvent Naphtha	LC50	Rainbow Trout (Oncorhynchus mykiss)	9.2 mg/l	96 Hours	2 (>1, ≤10 mg/l)
	LC50	Water Flea (Daphnia magna)	6.14 mg/l	48 Hours	2 (>1, ≤10 mg/l)
Acrylic Resin-Poly Based		No Data Available			

Presistence And Degradability
Bioaccumulative Potential
Mobility In Soil
Hyd
Low

Hydrocarbons from this product which do partition to air are expected to rapidly photodegrade

There is no evidence to suggest bioaccumulation will occur

Low solubility and floats and is expected to migrate from water to land, Expected to partition to sediment

and wastewater solids

Other Adverse Effects Toxic to aquatic life with long lasting effects

SECTION - 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Container Disposal Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270, Disposal can only occur in properly permitted facilities, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION – 14 TRANSPORT INFORMATION

DOT CLASSIFICATION

Material Disposal

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals) or "Limits"

UN 1268 PETROLEUM DISTILLATES, n.o.s. (Xylenes, Hydrocarbons)

Hazard ClassPacking GroupLabel CodesReportable Quantity (lb)ResponseMarine PollutantHazard LabelSecondary3IIIFlammable Liquid(317) = Xylenes128No

Additional Info:

SECTION – 15 REGULATORY INFO	RMATION			
TSCA				
CHEMICAL NAME	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Xylene (All Isomers)	Yes			
Light Aromatic Solvent Naphtha	Yes			
1,2,4-Trimethylbenzene	Yes			
Ethylbenzene	Yes			
Cumene	Yes			
Toluene	Yes	Yes		

REPORTABLE QUANTITIES	Extremely I	Extremely Hazardous Reportable Quantity				
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Toluene			1000	Yes	U220	
Xylene (All Isomers)			100	Yes	U239	
Ethylbenzene			1000	Yes		
Cumene			5000	Yes	U055	
1,2,4-Trimethylbenzene				Yes		

<u>SARA</u>	Section 311		Section	311 / 312 Hazards		
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Xylene (All Isomers)	Yes	Yes	Yes	Yes		
Light Aromatic Solvent Naphtha	Yes	Yes		Yes		
1,2,4-Trimethylbenzene	Yes	Yes	Yes	Yes		
Ethylbenzene	Yes	Yes	Yes	Yes		
Cumene	Yes	Yes	Yes	Yes		
Toluene	Yes	Yes	Yes	Yes		

RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Xylene (All Isomers)						Yes		Yes			Yes	Yes	
Light Aromatic Solvent Naphtha						Yes		Yes					
1,2,4-Trimethylbenzene						Yes		Yes			Yes		
Ethylbenzene						Yes		Yes			Yes		
Cumene						Yes					Yes		
Toluene	Yes		Yes			Yes		Yes		Yes	Yes		Yes

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

CHEMICAL NAME	CAS#	Birth Defects	Reproductive Harm	Carcinogen	Developmental
Toluene	108-88-3		Yes		Yes
Ethylbenzene	100-41-4			Yes	
Cumene	98-82-8			Yes	

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CLEAN AIR WATER ACTS		Clean Air	Acts		Clean Wat	ter Acts	
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Toluene	108-88-3				Yes	Yes	Yes
Ethylbenzene	100-41-4	Yes			Yes	Yes	Yes
Xylene (All Isomers)	1330-20-7	Yes			Yes		
Cumene	98-82-8				Yes (Oil)	Yes	Yes

NTERNATIONAL REGULATIONS — The components of this product are listed on the chemical inventories of the following countries:						
CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Xylene (All Isomers)	Yes	Yes	Yes	Yes	Yes	Yes
Light Aromatic Solvent Naphtha	Yes	Yes	Yes	Yes	Yes	Yes
1,2,4-Trimethylbenzene	Yes	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	Yes	Yes	Yes	Yes	Yes	Yes
Cumene	Yes	Yes	Yes	Yes	Yes	Yes

Yes

Yes

Yes

Yes

Yes

SECTION – 16 OTHER INFORMATION

Yes

Toluene

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG / IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

Direct Colors LLC

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.