DUX PAINT LLC.

SAFETY DATA SHEET

Revision Date 15/Jul/2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Description: **GS-1 Q.D. Gilding Size**

Other means of identification
Chemical Family Oil Modified Phenolic

Recommended use of the chemical and restrictions on use
Intended Use Gilding Adhesive
Uses advised against No information available

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Dux Paint LLC.
18 mill Street
Lodi, NJ 07644
USA
Tel +1-973-473-2376
Fax +1-973-473-1648

Emergency Telephone (INFOTRAC) 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Chronic aquatic toxicity	Category 2
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard Statements
Suspected of causing cancer
Causes damage to the central nervous system through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Toxic to aquatic life with long lasting effects
Flammable liquid and vapor

Appearance Clear Amber **Physical State** Liquid **Odor** Mild Petroleum

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Do not breathe mist, vapors, spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Avoid release to the environment

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
Dispose of contents/container to industrial incineration plant
Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC)
Other Information
May be harmful in contact with skin
Causes mild skin irritation

Unknown acute toxicity	60.1 % of the mixture consists of ingredient(s) of unknown toxicity
Unknown aquatic toxicity	61.5 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%	Trade Secret
Oil Modified Phenolic	Proprietary	59 - 61	
Stoddard Solvent	8052-41-3	37 - 39	
Xylene	1330-20-7	1 - 2	
Ethylbenzene	100-41-4	0.2 - 0.4	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Inhalation Move victim to fresh air. Keep warm and quiet. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. GET IMMEDIATE MEDICAL ATTENTION.

Ingestion Do NOT induce vomiting. Potential for aspiration if swallowed. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO2), Foam, Dry chemical, Water spray

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2)

Combustion/Explosion Hazards Combustible liquid. Vapors may form explosive mixtures with air. Flash back possible over considerable distance. Air oxidation of this product may cause it to spontaneously combust. To avoid spontaneous combustion, prevent residue build-up and soak soiled rags, spray-booth filter and over-spray in a closed water-filled metal container. Empty containers may retain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death. Empty drums should be completely drained and properly bunged. Empty drums should be promptly returned to a drum reconditioner or properly disposed. Closed containers may rupture when exposed to extreme heat.

Protective Equipment and Precautions for Firefighters
Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this combustible liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent spilled material from 1) contaminating soil, 2) entering sanitary sewers, storm sewers, and drainage systems, and 3) entering bodies of water or ditches that lead to waterways. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Methods for Clean-up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation. Remove all sources of ignition. Do not smoke. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep away from heat, sparks and open flame. - No smoking. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

Stoddard Solvent (CAS #: 8052-41-3)

ACGIH TLV	100 ppm TWA
OSHA PEL	500 ppm TWA
	2900 mg/m³ TWA
Canada - Alberta OELs	100 ppm TWA
	572 mg/m³ TWA
Canada - Ontario OELs	525 mg/m³ TWA
Canada - British Columbia OELs	290 mg/m³ TWA
	580 mg/m³ STEL
NIOSH IDLH	20000 mg/m³ Immediately dangerous to life or health IDLH
Mexico OEL	200 ppm STEL
	1050 mg/m³ STEL
	100 ppm TWA
	523 mg/m³ TWA

Xylene (CAS #: 1330-20-7)

ACGIH TLV	100 ppm TWA
	150 ppm STEL
	A4 Not Classifiable as a Human Carcinogen
OSHA PEL	100 ppm TWA
	435 mg/m³ TWA
Canada - Alberta OELs	150 ppm STEL
	651 mg/m³ STEL
	100 ppm TWA
	434 mg/m³ TWA
Canada - Ontario OELs	100 ppm TWA
	150 ppm STEL
Canada - British Columbia OELs	100 ppm TWA
	150 ppm STEL
Mexico OEL	150 ppm STEL
	655 mg/m³ STEL
	100 ppm TWA
	435 mg/m³ TWA

Ethylbenzene (CAS #: 100-41-4)

ACGIH TLV	20 ppm TWA A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans
OSHA PEL	100 ppm TWA 435 mg/m³ TWA
Canada - Alberta OELs	125 ppm STEL 543 mg/m³ STEL 100 ppm TWA 434 mg/m³ TWA
Canada - Ontario OELs	100 ppm TWA 125 ppm STEL
Canada - British Columbia OELs	20 ppm TWA
NIOSH IDLH	800 ppm Immediately dangerous to life or health IDLH
Mexico OEL	125 ppm STEL 545 mg/m³ STEL 100 ppm TWA 435 mg/m³ TWA

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)
TLV® (Threshold Limit Value)
TWA (time-weighted average)
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
OEL - Occupational Exposure Limit
STEL - Short Term Exposure Limit
NIOSH - National Institute for Occupational Safety and Health
IDLH - Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Use general ventilation to maintain airborne concentrations to levels that are below regulatory and recommended occupational exposure limits. Local ventilation may be required during certain operations. Use explosion-proof electrical equipment.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields. If splashes are likely to occur:. Tight sealing safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection Gloves made of Viton®. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Chemical resistant apron. Boots.

Respiratory Protection None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Amber
Odor	Mild Petroleum
Odor Threshold	20 ppm (Xylene)
Physical State	Liquid
pH	No information available
Flash Point	42 °C / 108 °F

Flash Point Method:	Seta closed cup
Autoignition Temperature	500°F - 980°F / 260°C - 527°C
Boiling point / boiling range	279°F - 388°F / 137°C - 198°C
Melting point / Freezing point	No information available
Flammability Limit in Air	
Lower	0.8%
Upper	6.6%
Specific Gravity	0.887 - 0.910 @ 25°C
Solubility	Insoluble (Water)
Evaporation rate	0.18 - 0.86 (BuAc = 1)
Vapor Pressure	2.03 - 9 mmHg @ 68°F/20°C
Vapor Density	3.66 - 4.9 (Air = 1)
Explosive properties	No information available
Oxidizing Properties	No information available
Percent Volatile, wt.%	39 - 41 % by weight
VOC Content (%):	359 g/l (calculated) product as supplied
Viscosity	3 - 3.4 Stokes @ 25°C
Partition Coefficient (n-octanol/water)	No information available
Decomposition temperature	No information available

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Keep away from open flames, hot surfaces and sources of ignition. Contamination.

Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Primary Routes of Entry Skin Contact, Ingestion, Inhalation, Eye contact, Skin absorption

Acute toxicity

Stoddard Solvent	
Oral LD50	> 15000 mg/kg (rat)
Dermal LD50	> 3160 mg/kg (rabbit)
Xylene	
Oral LD50	= 4300 mg/kg (Rat)
	= 4820 mg/kg (Rat)
Dermal LD50	> 1700 mg/kg (Rabbit)
	> 2000 mg/kg (Rabbit)
Ethylbenzene	
Oral LD50	= 3500 mg/kg (Rat)
	= 4820 mg/kg (Rat)
Dermal LD50	= 15354 mg/kg (Rabbit)
	> 2000 mg/kg (Rabbit)

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eyes Mild eye irritation.

Skin Mild skin irritant. Repeated exposure may cause skin dryness or cracking. Can be absorbed through skin.

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system. Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

Ingestion Ingestion (swallowing) may irritate the mouth, throat and stomach. Aspiration into lungs may cause chemical pneumonia and lung damage. Ingestion is not an anticipated route of exposure for this material in industrial use.

Sensitization Not sensitizing.

Repeated dose toxicity Repeated overexposure to xylene via the inhalation route, has caused a hearing loss in laboratory animals.

Mutagenic effects No information available.

Carcinogenicity .

Xylene

ACGIH A4 - Not Classifiable as a Human Carcinogen

Ethylbenzene

ACGIH A3 - Animal Carcinogen

IARC Group 2B - Possibly Carcinogenic to Humans

Legend *ACGIH (American Conference of Governmental Industrial Hygienists)*
IARC - International Agency for Research on Cancer

Reproductive Toxicity No information available.

Developmental Toxicity High exposures to xylene in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined. Ethyl Benzene has been shown to be fetotoxic in laboratory animals at maternally toxic levels.

Neurological Effects No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ(s) Central nervous system (CNS), Liver, Kidney, Lungs.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 60.1 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	5015 mg/kg
ATEmix (dermal)	2996 mg/kg
ATEmix (inhalation-vapor)	327 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Xylene

Log Kow	2.77 - 3.15
Bioconcentration factor (BCF)	0.6 - 15
Algae	EC50 = 11 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	LC50 = 13.4 mg/L (Pimephales promelas) (96 h) flow-through LC50 2.661 - 4.093 mg/L (Oncorhynchus mykiss) (96 h) static LC50 13.5 - 17.3 mg/L (Oncorhynchus mykiss) (96 h) LC50 13.1 - 16.5 mg/L (Lepomis macrochirus) (96 h) flow-through LC50 = 19 mg/L (Lepomis macrochirus) (96 h) LC50 7.711 - 9.591 mg/L (Lepomis macrochirus) (96 h) static LC50 23.53 - 29.97 mg/L (Pimephales promelas) (96 h) static LC50 = 780 mg/L (Cyprinus carpio) (96 h) semi-static LC50 > 780 mg/L (Cyprinus carpio) (96 h) LC50 30.26 - 40.75 mg/L (Poecilia reticulata) (96 h) static
Water Flea	EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h

Ethylbenzene

Log Kow	3.118
Bioconcentration factor (BCF)	15 fish
Algae	EC50 = 4.6 mg/L (Pseudokirchneriella subcapitata) (72h) EC50 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) (72h) EC50 = 11 mg/L (Pseudokirchneriella subcapitata) (72h)
Fish	LC50 11.0 - 18.0 mg/L (Oncorhynchus mykiss) (96 h) static LC50 = 4.2 mg/L (Oncorhynchus mykiss) (96 h) semi-static LC50 7.55 - 11 mg/L (Pimephales promelas) (96 h) flow-through LC50 = 32 mg/L (Lepomis macrochirus) (96 h) static LC50 9.1 - 15.6 mg/L (Pimephales promelas) (96 h) static LC50 = 9.6 mg/L (Poecilia reticulata) (96 h) static
Water Flea	EC50 1.8 - 2.4 mg/L 48 h

Unknown aquatic toxicity

61.5 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Considerations Hazardous waste. Can be incinerated, when in compliance with local regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number D001 (IGNITABLE): When discarded in its purchased form, this material would be regulated under 40 CFR 261.21 as EPA Hazardous Waste Number D001 based on the characteristic of ignitability.

14. TRANSPORT INFORMATION

DOT

UN-No	UN1866
Proper Shipping Name	HOT RESIN SOLUTION
Hazard Class	3
Packing Group	III
NAERG:	127
DOT Exemption:	This material has a flash point at or above 38°C and may be re-classed as a combustible liquid. A combustible liquid in a non-bulk package (<119 gallons) is exempt from the Hazardous Material Regulations unless shipped by vessel or aircraft. Reference 49 CFR 173.150(f). The transport information may vary with the container and mode of transport.

TDG

UN-No	UN3256
Proper Shipping Name	ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S.
Technical Name:	XYLENE STODDARD SOLVENT
Hazard Class	CLASS 3
Packing Group	PG III
Marine Pollutant	STODDARD SOLVENT
NAERG:	128
TDG Exemption:	The transport information may vary with the container and mode of transport

MEX

UN-No	UN1866
Proper Shipping Name	RESIN SOLUTION
Hazard Class	CLASS 3
Packing Group	PG III
NAERG:	127

IATA

UN-No	UN1866
Proper Shipping Name	RESIN SOLUTION
Hazard Class	3
Packing Group	III
Packing Instructions	355; 366
NAERG:	127

IMDG/IMO

UN-No	UN1866
Proper Shipping Name	RESIN SOLUTION
Hazard Class	CLASS 3
Packing Group	PG III
EmS-No	F-E, S-E
Marine Pollutant	STODDARD SOLVENT
NAERG:	127

15. REGULATORY INFORMATION

International Inventories

TSCA Inventory Status:	All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.
Canadian Inventory Status:	All components of this material are listed on the Canadian Domestic Substances List (DSL)
Australian Inventory Status:	This product contains one or more chemicals currently not on the Australian Inventory of Chemical Substances
Korean Inventory Status:	This product contains only chemicals which are currently listed on the Korean Chemical Substances List
Philippine Inventory:	All components of this material are listed on or are exempt from the Philippine Inventory of Chemicals and Chemical Substances

Japan ENCS: This product contains one or more chemicals currently not on the Japanese Inventory of Existing and New Chemical Substances

Chinese IECS: This product contains one or more chemicals currently not on the Chinese Inventory of Existing Chemical Substances

New Zealand Inventory: All components of this material are listed on or are exempt from the New Zealand Inventory of Chemicals

US Federal Regulations

TSCA 12(b) - Export Notification:
This material does not contain any components that are subject to the US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification requirements.

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372:

Component	CAS No	Weight-%	SARA 313 Status
Xylene	1330-20-7	1 - 2	Listed
Ethylbenzene	100-41-4	0.2 - 0.4	Listed

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product contains the following listed substances:

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene 1330-20-7	100 lb			Listed
Ethylbenzene 100-41-4	1000 lb	Listed	Listed	Listed

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

Component	CAS No	Weight-%	HAPS data
Xylene	1330-20-7	**1 - 2**	Listed
Ethylbenzene	100-41-4	**0.2 - 0.4**	Listed

CERCLA
This product contains the following reportable quantities:

Component	40 CFR 302.4 RQ	40 CFR 355 EHS TPQs
Xylene	100 lb 45.4 kg	
Ethylbenzene	1000 lb 454 kg	

Chemical Weapons Convention (CWC)
This product does not contain any listed substances.

State Regulations

California Proposition 65
WARNING: This material contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

Canada
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

NFPA Rating **Health** 2 **Flammability** 2 **Instability** 0

Prepared By Dux Paint Product Regulatory Department
Phone Number: 973-473-2376

Revision Date 15/Jul/2015

Revision Summary: This data sheet contains changes from the previous version in section(s):
1

Former date 16 March 2015

This information is provided in good faith and is correct to the best of Dux Paint's knowledge as of the date hereof and is designed to assist our customers; however, Dux Paint makes no representation as to its completeness or accuracy. Our products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications. Any use which Dux Paint customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. Dux Paint disclaims responsibility for damages, or liability, of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL REICHHOLD BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet