

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TEC® EFX 440-953A STARRY NIGHT
Product code : 100000021917

Manufacturer or supplier's details

Company : TEC Specialty Products
Address : 1105 South Frontenac
Aurora, IL, 60504
Telephone : 800-832-9023

Medical Emergency Phone Number (24 Hours): 1-800-424-9300

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Epoxy resin
Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION



Emergency Overview

Appearance	liquid
Color	dark blue
Odor	aromatic

GHS Classification

Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitization : Category 1
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1B

GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements:

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H340 May cause genetic defects. H350 May cause cancer.

Precautionary Statements:

Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Quartz (SiO₂) 14808-60-7

Group 2B: Possibly carcinogenic to humans During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Carbon black 1333-86-4

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

Known to be human carcinogen During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.

Quartz (SiO₂) 14808-60-7

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
Epoxy resin	25068-38-6	50 - 70
Epoxy resin	25085-99-8	50 - 70
Ashes (residues)	68131-74-8	10 - 20
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	10 - 20
Polystyrene	9003-53-6	5 - 10

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Quartz (SiO ₂)	14808-60-7	1 - 5
titanium dioxide	13463-67-7	1 - 5
2-methoxy-1-methylethyl acetate	108-65-6	1 - 5
Carbon black	1333-86-4	0.1 - 1
stoddard solvent	8052-41-3	0.1 - 1
Solvent naphtha (petroleum), medium aliph.	64742-88-7	0.1 - 1

This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product may contain crystalline silica. As provided, and during normal use of this product, the crystalline silica is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. Use of this product would not subject the user to the compliance requirements of 29CFR1910.1053 or 1926.1153.

SECTION 4. FIRST AID MEASURES

- General advice : Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
Get medical attention immediately if irritation develops and persists.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : Do NOT induce vomiting.
If victim is fully conscious, give a cupful of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific extinguishing methods :
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material. Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Technical measures : not applicable

Advice on safe handling : No special precautions required.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO ₂)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (total dust)	30 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
		TWA	0.1 mg/m ³	OSHA P0

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

		(Respirable fraction)		
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		PEL (Respirable dust)	0.05 mg/m3	CAL PEL
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total)	10 mg/m3	OSHA P0
		TWA (Total dust)	10 mg/m3	OSHA P0
2-methoxy-1-methylethyl acetate	108-65-6	PEL	100 ppm 541 mg/m3	CAL PEL
		STEL	150 ppm 811 mg/m3	CAL PEL
Carbon black	1333-86-4	TWA	3.5 mg/m3	ACGIH
		TWA	3.5 mg/m3	OSHA Z-1
		TWA	3.5 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	3 mg/m3	ACGIH
		PEL	3.5 mg/m3	CAL PEL
stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
		PEL	100 ppm 525 mg/m3	CAL PEL
Solvent naphtha (petroleum), medium aliph.	64742-88-7	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Material

: Nitrile rubber

SAFETY DATA SHEET

TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Eye protection	: Safety glasses
Skin and body protection	: Remove and wash contaminated clothing before re-use.
Protective measures	: Avoid contact with skin.
Hygiene measures	: Avoid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: dark blue
Odor	: aromatic
Odor Threshold	: no data available
pH	: not applicable
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Flash point	: not applicable
Evaporation rate	: is not determined
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Vapor pressure	: is not determined
Density	: 7.9 - 10 lb/gal
Solubility(ies)	
Water solubility	: is not determined
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: is not determined
Viscosity	
Viscosity, kinematic	: is not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: The product is chemically stable.
Conditions to avoid	: not applicable

SAFETY DATA SHEET

TEC[®] EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Hazardous decomposition products : Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 164.26 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

Ashes (residues):

Acute oral toxicity : LD50 Oral Rat: > 2,000 mg/kg

Solvent naphtha (petroleum), medium aliph.:

Acute inhalation toxicity : LC50 Rat: > 5.28 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

SAFETY DATA SHEET

TEC[®] EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), medium aliph. :

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 800 mg/l
Exposure time: 96 h
Test Method: static test

Persistence and degradability

No data available

Bioaccumulative potential

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14. TRANSPORT INFORMATION

International Regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SAFETY DATA SHEET

TEC[®] EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Domestic regulation

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TSCA All substances listed as active on the TSCA inventory

DSL All components of this product are on the Canadian DSL

IECSC On the inventory, or in compliance with the inventory
Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AIIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

SECTION 16. OTHER INFORMATION

SAFETY DATA SHEET

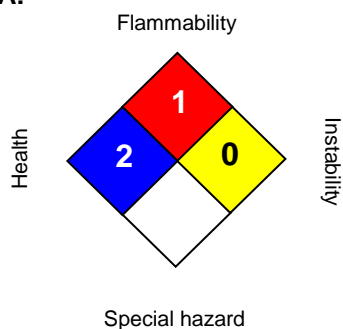
TEC® EFX 440-953A STARRY NIGHT

Version 1.0

Revision Date 05/03/2022

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic