

SAFETY DATA SHEET

Published Date Aug-18-2021

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Revision Number 2.6

1. IDENTIFICATION

Product identifier Product code Product name Product category	S258 Tinting White System 2 Series SV Vinyl Screen Ink		
Other means of identification Synonyms	None		
Recommended use of the chemical and restrictions on use Recommended use Industrial Printing Operations			
Details of the supplier of the safety data sheet			
UNITED STATES	UNITED KINGDOM		
Nazdar Company	Nazdar Limited		
8501 Hedge Lane Terrace	Barton Road		
Shawnee, KS 66227	Heaton Mersey		
Tel: +001-913-422-1888	Stockport, England SK4 3EG		
Tel: +001-800-677-4657	Tel: +44 161 442 2111		

Tel: +001-800-677-4657 Fax: +001-913-422-2294 www.nazdar.com

Emergency telephone number

USA: Chemtrec: +001-800-424-9300 Outside USA: Chemtrec: +001-703-527-3887 24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Flammable liquids	Category 3 - (H226)

Label elements



Danger

Hazard Statements

H315 - Causes skin irritation H318 - Causes serious eye damage H226 - Flammable liquid and vapor

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P233 - Keep container tightly closed

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P403 + P235 - Store in a well-ventilated place. Keep cool

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Titanium dioxide	13463-67-7	10 - 30	*	
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	*	
Cyclohexanone	108-94-1	10 - 30	*	
Diethylene glycol ethyl ether acetate	112-15-2	1 - 5	*	
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5	*	

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Description of first aid measures

General Advice Eye Contact	Show this safety data sheet to the doctor in attendance. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed None under normal use conditions.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.
Conditions for safe storage, includ	ing any incompatibilities
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children.
Incompatible Products	Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component	ACGIH TLV
Titanium dioxide	TWA: 10 mg/m ³
13463-67-7	
Cyclohexanone	TWA: 20 ppm
108-94-1	STEL: 50 ppm
	Skin
Ethylene glycol monobutyl ether acetate	TWA: 20 ppm
112-07-2	

Component	OSHA PEL
Titanium dioxide	TWA: 15 mg/m ³ total dust
13463-67-7	
Cyclohexanone	TWA: 50 ppm
108-94-1	TWA: 200 mg/m ³

Component	OSHA PEL (vacated)
Titanium dioxide	TWA: 10 mg/m ³ total dust
13463-67-7	
Cyclohexanone	TWA: 25 ppm
108-94-1	TWA: 100 mg/m ³
	Skin

Component	Ontario TWAEV
Titanium dioxide	TWA: 10 mg/m ³
13463-67-7	

S258 Tinting White

Ethylene glycol monopropyl ether 2807-30-9	TWA: 25 ppm TWA: 110 mg/m ³ Skin
	TWA: 20 ppm STEL: 50 ppm Skin
Ethylene glycol monobutyl ether acetate 112-07-2	TWA: 20 ppm

Component	Mexico OEL (TWA)	
Titanium dioxide	TWA/VLE-PPT: 10 mg/m ³	
13463-67-7		
Cyclohexanone	TWA/VLE-PPT: 20 ppm	
108-94-1	STEL/PPT-CT: 50 ppm	
Ethylene glycol monobutyl ether acetate	TWA/VLE-PPT: 20 ppm	
112-07-2		

Appropriate engineering controls

Engineering Measures	Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.
Individual protection measures, suc	th as personal protective equipment
Eye/Face Protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur:. Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Hand Protection	Chemical resistant protective gloves. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eg. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers. Taking into account the varying conditions, the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Due to different glove types, the manufacturer's directions for use should be observed. Replace gloves immediately when torn or any change in appearance is noticed such as dimension, color, flexibility.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material.
General Hygiene Considerations	s Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Physical State	Liquid	
Odor	Characteristic	
<u>Property</u> pH	<u>Values</u>	

Color Odor Threshold Colored No information available

Remarks • Method No data available

VOC by weight % (less water) 45.9	VOC by volume % (less water) 58,15	VOC lbs/gal (less water) 4.95	VOC grams/lite (less water) 593.56
Weight Per Gallon (Ibs/gal)	10.78		
Photochemically Reactive	No		
Other Information			
Oxidizing Properties	No data available		
Explosive Properties	No data available		
Dynamic viscosity		No data available	
Kinematic viscosity		No data available	
Decomposition temperature		No data available	
Autoignition Temperature		No data available	
Partition coefficient: n-octanol/v	vater	No data available	
Solubility in other solvents		No data available	
Water Solubility	1.29	No data available	
Vapor Density Specific Gravity	1.29	No data available	
Vapor Pressure		No data available	
Lower flammability limit		No data available	
Upper flammability limit		No data available	
Flammability Limit in Air			
Evaporation rate		No data available	
Flash Point	46 °C / 115 °F	Pensky Martens Close	ed Cup (PMCC)
Boiling Point / Boiling Range	> 149 °C / 300 °F		

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component	Oral LD50
Titanium dioxide	> 10000 mg/kg (Rat)
13463-67-7	
Ethylene glycol monopropyl ether	= 3089 mg/kg (Rat)

2807-30-9		
Cyclohexanone	= 1544 mg/kg (Rat)	
108-94-1		
Diethylene glycol ethyl ether acetate	= 11 g/kg (Rat)	
112-15-2		
Ethylene glycol monobutyl ether acetate	= 2400 mg/kg (Rat)	
112-07-2		
Component	Dermal LD50	
Ethylene glycol monopropyl ether 2807-30-9	= 870 mg/kg (Rabbit)	
Cyclohexanone 108-94-1	= 947 mg/kg (Rabbit)	
Diethylene glycol ethyl ether acetate 112-15-2	= 15100 mg/kg (Rabbit)	
Ethylene glycol monobutyl ether acetate 112-07-2	= 1500 mg/kg (Rabbit)	
Component	Inhalation LC50	
Titanium dioxide 13463-67-7	= 5.09 mg/L (Rat)4 h	
Ethylene glycol monopropyl ether 2807-30-9	= 1530 ppm (Rat)7 h	
Cyclohexanone 108-94-1	> 6.2 mg/L (Rat)4 h	
Ethylene glycol monobutyl ether acetate 112-07-2	> 400 ppm (Rat)4 h	

Information on toxicological effects

Symptoms

Specific test data for the substance or mixture is not available.

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

Skin corrosion/irritation	Specific test data for the substanc	e or mixture is not available. Causes skin irritation (pain,
	redness and swelling). (based on	components).
Eye damage/irritation		e or mixture is not available. Causes serious eye
	damage. (based on components).	
Irritation	Specific test data for the substanc	e or mixture is not available.
Corrosivity	Specific test data for the substanc	e or mixture is not available.
Sensitization	Specific test data for the substanc	e or mixture is not available.
Mutagenic Effects	Specific test data for the substanc	e or mixture is not available.
Carcinogenic effects	Specific test data for the substanc	e or mixture is not available.
Reproductive Effects	Specific test data for the substance or mixture is not available.	
STOT - single exposure	Specific test data for the substance or mixture is not available.	
STOT - repeated exposure	Specific test data for the substance or mixture is not available.	
Chronic Toxicity	Specific test data for the substance or mixture is not available	
Aspiration hazard	Specific test data for the substance or mixture is not available.	
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.	
Component	A	ACGIH
Cyclohexanone	Α	43
108-94-1		
Ethylene glycol monobutyl ether acetate	Α	43
112-07-2		
Component	h	ARC
Titonium diovido		Croup 2P

13463-67-7	Group 2B

Component	OSHA
Titanium dioxide	X
13463-67-7	

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	0 % 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)	9,214.00 mg/kg
ATEmix (dermal)	2,652.00 mg/kg mg/l
ATEmix (inhalation-dust/mist)	7.60 mg/l
ATEmix (inhalation-vapor)	56.00 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Specific test data for the substance or mixture is not available.

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component	Algae/aquatic plants
Ethylene glycol monobutyl ether acetate 112-07-2	72h EC50 Desmodesmus subspicatus: > 500 mg/L
Component	Fish
Ethylene glycol monopropyl ether 2807-30-9	96h LC50 Pimephales promelas: > 5000 mg/L [static]
Cyclohexanone 108-94-1	96h LC50 Pimephales promelas: 481 - 578 mg/L (flow-through) 96h LC50 Pimephales promelas: = 8.9 mg/L
Ethylene glycol monobutyl ether acetate 112-07-2	96h LC50 Oncorhynchus mykiss: 20 - 40 mg/L
Component	Crustacea
Ethylene glycol monobutyl ether acetate 112-07-2	48h EC50 Daphnia magna: = 37 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Component	Partition coefficient
	0.86
108-94-1	
Ethylene glycol monobutyl ether acetate	1.51
112-07-2	

13. DISPOSAL CONSIDERATIONS

Waste treatment methods			
Waste Disposal Methods	Contain and dispose of waste according to local regulations.		
Contaminated Packaging Empty containers should be taken to an approved waste handling site for recyclassical.			
14. TRANSPORT INFORMATION			
Note:	This information is not intended to convey all specific transportation requirements relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation information can be found in the specific regulations for your mode of transportation. It is the responsibility of the transporting organization to follow all applicable laws, regulations and		

	rules relating to the transportation of the material.
DOT	In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].
UN/ID no	UN1210
Proper Shipping Name	Printing Ink
Hazard Class	3
Packing Group	III
ICAO / IATA / IMDG / IMO	
UN/ID no	UN1210
Proper Shipping Name	Printing Ink
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

All components are listed on the TSCA Inventory. For further information, please contact:. Supplier (manufacturer/importer/downstream user/distributor).

U.S. Federal Regulations

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 Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Ethylene glycol monopropyl ether	2807-30-9	10 - 30	1.0
Diethylene glycol ethyl ether acetate	112-15-2	1 - 5	1.0
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Component	CAS-No	Weight %
Ethylene glycol monopropyl ether	2807-30-9	10 - 30
Diethylene glycol ethyl ether acetate	112-15-2	1 - 5
Ethylene glycol monobutyl ether acetate	112-07-2	1 - 5

U.S. State Regulations

	Massachusetts Right To Know
Titanium dioxide 13463-67-7	X
Cyclohexanone	X
108-94-1	

	Minnesota Right To Know
Titanium dioxide 13463-67-7	X
Cyclohexanone 108-94-1	X

	New Jersey Right To Know
Titanium dioxide 13463-67-7	X

Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Diethylene glycol ethyl ether acetate 112-15-2	X
Ethylene glycol monobutyl ether acetate 112-07-2	X

Component	Pennsylvania Right To Know
Titanium dioxide 13463-67-7	x
Ethylene glycol monopropyl ether 2807-30-9	X
Cyclohexanone 108-94-1	X
Diethylene glycol ethyl ether acetate 112-15-2	X
Ethylene glycol monobutyl ether acetate 112-07-2	X

California Prop. 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

Component	California Prop. 65
Titanium dioxide	Carcinogen
This was done to see this of the sines of socials in a second second by former, but	- le fine - f file al la contra la contra la contra de la c

- This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

<u>Canada</u>

Component	NPRI - National Pollutant Release Inventory
Ethylene glycol monopropyl ether 2807-30-9	Part 5, Other Groups and Mixtures (total of CAS 112-07-2, CAS 112-15-2, CAS 112-25-4, CAS 112-34-5, CAS 5131-66-8, CAS 107-98-2, CAS 109-59-1, CAS 111-90-0, CAS 124-17-4, CAS 1569-01-3, CAS 1569-02-4, CAS 2807-30-9, CAS 29911-27-1, CAS 29911-28-2, CAS 34590-94-8, CAS 54839-24-6, CAS 623-84-7, CAS 88917-22-0 and their isomers, listed under Other Glycol ethers and acetates (and their isomers)) Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
Cyclohexanone 108-94-1	Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
Diethylene glycol ethyl ether acetate 112-15-2	Part 5, Other Groups and Mixtures (total of CAS 112-07-2, CAS 112-15-2, CAS 112-25-4, CAS 112-34-5, CAS 5131-66-8, CAS 107-98-2, CAS 109-59-1, CAS 111-90-0, CAS 124-17-4, CAS 1569-01-3, CAS 1569-02-4, CAS 2807-30-9, CAS 29911-27-1, CAS 29911-28-2, CAS 34590-94-8, CAS 54839-24-6, CAS 623-84-7, CAS 88917-22-0 and their isomers, listed under Other Glycol ethers and acetates (and their isomers)) Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)
Ethylene glycol monobutyl ether acetate 112-07-2	Part 5, Other Groups and Mixtures (total of CAS 112-07-2, CAS 112-15-2, CAS 112-25-4, CAS 112-34-5, CAS 5131-66-8, CAS 107-98-2, CAS 109-59-1, CAS 111-90-0, CAS 124-17-4, CAS 1569-01-3, CAS 1569-02-4, CAS 2807-30-9, CAS 29911-27-1, CAS 29911-28-2, CAS 34590-94-8, CAS 54839-24-6, CAS 623-84-7, CAS 88917-22-0 and their isomers, listed under Other Glycol ethers and acetates (and their isomers)) Part 4 Substance (as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999)

16. OTHER INFORMATION

HMIS:	Health	Flammability	Reactivity	Personal Protection
	2 *	2	0	Х

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWĂ	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Revision Date Aug-18-2021

Pursuant to NOM-018-STPS-2015

This information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet