

SAFETY DATA SHEET

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

Product identifier

Product code NSC42C

Product name Nitrogen Texture Clear Coarse

Product category Nitrogen Texture Clear UV Screen Ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet

UNITED STATES
UNITED KINGDOM
Nazdar Company
Nazdar Limited
8501 Hedge Lane Terrace
Shawnee, KS 66227
Burton Road
Heaton Mersey

Tel: +001-913-422-1888 Stockport, England SK4 3EG Tel: +001-800-677-4657 Tel: +44 161 442 2111

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)
Skin sensitization	Category 1B - (H317)
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)

Label elements







Signal Word Danger

Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements

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

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P314 - Get medical advice/attention if you feel unwell

P273 - Avoid release to the environment

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

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Component	CAS-No	Weight %	Trade Secret	Note
Acrylated Monomer	Trade Secret	30 - 60	*	
Acrylated Oligomer	Trade Secret	10 - 30	*	
Photoinitiator	Trade Secret	5 - 10	*	
Acrylated Monomer	Trade Secret	5 - 10	*	
Vinyl Functional Monomer	Trade Secret	1 - 5	*	
Acrylated Monomer	Trade Secret	1 - 5	*	
Additive	Trade Secret	1 - 5	*	
Acrylated Monomer	Trade Secret	< 0.5	*	
Ethyl benzene (constituent)	100-41-4	< 0.5	*	1
Acrylated Monomer	Trade Secret	< 0.5	*	

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

Note 1. Hazardous Constituent contained in Complex Substance(s) required for disclosure

4. FIRST AID MEASURES

Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact 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. 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.

Inhalation

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. Hazardous polymerization may take place during a fire due to heat. Closed containers could violently rupture.

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

HandlingUse personal protective equipment as required. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Keep at temperatures between 18°-32°C (65°-90°F). Keep containers tightly closed in a dry,

cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Protect from direct sunlight. Keep away from open flames, hot surfaces

and sources of ignition.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component	ACGIH TLV
Ethyl benzene (constituent)	TWA: 20 ppm
100-41-4	

Component	OSHA PEL
Ethyl benzene (constituent)	TWA: 100 ppm

100-41-4	TWA: 435 mg/m ³

Component	OSHA PEL (vacated)
Ethyl benzene (constituent)	TWA: 100 ppm
100-41-4	TWA: 435 mg/m ³
	STEL: 125 ppm
	STEL: 545 mg/m ³

Component	Ontario TWAEV
Ethyl benzene (constituent)	TWA: 20 ppm
100-41-4	

Component	Mexico OEL (TWA)
Ethyl benzene (constituent)	TWA/VLE-PPT: 100 ppm
100-41-4	TWA/VLE-PPT: 435 mg/m ³
	STEL/PPT-CT: 125 ppm
	STEL/PPT-CT: 545 mg/m ³

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, such as personal protective equipment

Eve/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.

Chemical resistant protective gloves. **Hand Protection**

> Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding >480 minutes of permeation time): eq. 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.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection**

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 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

Colored Liquid **Physical State** Liquid **Appearance**

Odor Sweet Mild Acrylic Odor Threshold No information available

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No data available

No data available

PropertyValuesRemarks • MethodpHNo data available

Melting Point / Freezing Point

Boiling Point / Boiling Range > 149 °C / 300 °F

Flash Point > 94 °C / > 201 °F Pensky Martens Closed Cup (PMCC)

Evaporation rate No data available

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
No data available
No data available
Vapor Pressure
No data available
Vapor Density
No data available

Specific Gravity 1.05

Water Solubility

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition Temperature

Decomposition temperature

No data available

Explosive Properties No data available Oxidizing Properties No data available

Other Information

Dynamic viscosity

Photochemically Reactive No Weight Per Gallon (lbs/gal) 8.79

VOC by weight %	VOC by volume %	VOC lbs/gal	VOC grams/liter
(less water)	(less water)	(less water)	(less water)
2.09	2.33	0-1	22.02

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing. Do not store for longer periods at temperatures above 93°C (200°F).

Conditions to avoid

Temperatures above $93 \,^{\circ}\text{C} / 200 \,^{\circ}\text{F}$. Protect from direct sunlight. 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

InhalationSpecific test data for the substance or mixture is not available.Eye ContactSpecific test data for the substance or mixture is not available.Skin ContactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

100-41-4 Acrylated Monomer

 Component
 Oral LD50

 Acrylated Monomer
 = 5 g/kg (Rat)

 Photoinitiator
 = 1694 mg/kg (Rat)

 Acrylated Monomer
 = 6200 mg/kg (Rat)

 Acrylated Monomer
 = 813 mg/kg (Rat)

 Additive
 > 3200 mg/kg (Rat)

 Ethyl benzene (constituent)
 = 3500 mg/kg (Rat)

Component	Dermal LD50
Acrylated Monomer	= 3600 mg/kg(Rabbit)
Acrylated Monomer	> 2 g/kg(Rabbit)
Ethyl benzene (constituent)	= 15400 mg/kg (Rabbit)
100-41-4	
Acrylated Monomer	= 154 mg/kg(Rabbit)

= 548 mg/kg (Rat)

Component	Inhalation LC50
Additive	> 5.3 mg/L (Rat) 6 h
Ethyl benzene (constituent)	= 17.4 mg/L (Rat) 4 h
100-41-4	

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/irritationSpecific test data for the substance or mixture is not available. Causes skin irritation (pain,

redness and swelling). (based on components).

Eye damage/irritation Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components).

IrritationSpecific test data for the substance or mixture is not available.CorrosivitySpecific test data for the substance or mixture is not available.

Sensitization Specific test data for the substance or mixture is not available. May cause an allergic skin

reaction. (based on components).

Mutagenic EffectsSpecific test data for the substance or mixture is not available.Carcinogenic effectsSpecific test data for the substance or mixture is not available.Reproductive EffectsSpecific test data for the substance or mixture is not available.STOT - single exposureSpecific test data for the substance or mixture is not available.

STOT - repeated exposure Specific test data for the substance or mixture is not available. May cause damage to

organs through prolonged or repeated exposure. (based on components).

Chronic Toxicity Specific test data for the substance or mixture is not available

Target Organ Effects Liver, Respiratory system.

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

Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.	
Component		ACGIH
Ethyl benzene (constituent)		A3
100-41-4		

Component	IARC
Ethyl benzene (constituent)	Group 2B
100-41-4	

Component	OSHA
Ethyl benzene (constituent)	X
100-41-4	

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) 5,221.00 mg/kg **ATEmix (dermal)** 19,374.00 mg/kg mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Specific test data for the substance or mixture is not available. Harmful to aquatic life with long lasting effects. (based on components).

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

Component	Algae/aquatic plants
Acrylated Monomer	72h EC50 Desmodesmus subspicatus: > 28 mg/L
Ethyl benzene (constituent)	96h EC50 Pseudokirchneriella subcapitata: > 438 mg/L
100-41-4	96h EC50 Pseudokirchneriella subcapitata: 1.7 - 7.6 mg/L static
	72h EC50 Pseudokirchneriella subcapitata: = 4.6 mg/L
	72h EC50 Pseudokirchneriella subcapitata: 2.6 - 11.3 mg/L static

Component	Fish
Vinyl Functional Monomer	96h LC50 Danio rerio: = 307 mg/L [static]
Additive	96h LC50 Pimephales promelas: > 1.55 mg/L (static)
Acrylated Monomer	96h LC50 Danio rerio: = 5.74 mg/L [static]
Ethyl benzene (constituent) 100-41-4	96h LC50 Pimephales promelas: 7.55 - 11 mg/L (flow-through) 96h LC50 Poecilia reticulata: = 9.6 mg/L (static) 96h LC50 Oncorhynchus mykiss: 11.0 - 18.0 mg/L (static) 96h LC50 Pimephales promelas: 9.1 - 15.6 mg/L (static) 96h LC50 Oncorhynchus mykiss: = 4.2 mg/L (semi-static) 96h LC50 Lepomis macrochirus: = 32 mg/L (static)
Acrylated Monomer	96h LC50 Pimephales promelas: = 4.8 mg/L (flow-through)

Crustacea
48h EC50 Daphnia magna: = 88.7 mg/L
48h EC50 Daphnia magna: > 1.46 mg/L
48h EC50 Daphnia magna: 1.8 - 2.4 mg/L
48h EC50 Daphnia magna: = 0.78 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Component	Partition coefficient
Acrylated Monomer	2.77

Ethyl benzene (constituent) 100-41-4	3.2
Acrylated Monomer	0.21

Other adverse effects

No information available

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 recycling or

disposal.

14. TRANSPORT INFORMATION

This information is not intended to convey all specific transportation requirements relating to Note:

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.

Not regulated DOT

Proper Shipping Name Printing Ink

ICAO / IATA / IMDG / IMO Not Regulated

Proper Shipping Name Printing Ink

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
Ethyl benzene (constituent)	100-41-4	< 0.5	0.1

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 %
Xylenes (o-, m-, p- isomers)	1330-20-7	< 1
Ethyl benzene (constituent)	100-41-4	< 0.5

U.S. State Regulations

	Massachusetts Right To Know
Ethyl benzene (constituent)	X

Acrylated Monomer		X		
Component			esota t To Know	
Acrylated Monomer		X	t 10 Kilow	
Acrylated Monomer		X		
Ethyl benzene (constituent) 100-41-4		х		
Component			Jersey	
Ethyl benzene (constituent) 100-41-4		X X	t To Know	
Acrylated Monomer		Х		
Component			nsylvania t To Know	
Ethyl benzene (constituent) 100-41-4		Х		
Acrylated Monomer		х		
California Prop. 65 This product contains chem reproductive harm Component Ethyl benzene (constituent)	nical(s) known to the Sta	ate of California to cause c California P Carcinogen		th defects or other
<u>Canada</u>				
Component Ethyl benzene (constituent) 100-41-4			I - National Pollutant Releat 1, Group A Substance; Part	
100 41 4		<u>'</u>		
	10	6. OTHER INFORMA	TION	
HMIS:	Health 2	Flammability 1	Reactivity 1	Personal Protection X
Key or legend to abbre	viations and acrony	ms used in the safety	data sheet	
Legend - Section 8: EXPO		ERSONAL PROTECTION -weighted average)		
STEL Ceiling		ort Term Exposure Limit)		
ACGIH: (American Conferen A1 - Known Human Carcinogel A2 - Suspected Human Carcino	n	ustrial Hygienists)		

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) OSHA: (Occupational Safety & Health Administration)

X - Present

Revision Date

Jan-07-2020

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