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May-31-2015

Revision Date
May-30-2015

Revision Number
1

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

Product identifier

Product code **7927**
Product name **Mixing/Overprint Clear**
Product category **7900 Series Corogloss 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 | Barton Road |
| Shawnee, KS 66227 | Heaton Mersey |
| Tel: 1-913-422-1888 | Stockport, England SK4 3EG |
| Tel: 1-800-677-4657 | Tel: +44 161 442 2111 |
| Fax: 1-913-422-2294 | |
| www.nazdar.com | |

Emergency telephone number

USA: Chemtrec: 1-800-424-9300
Outside USA: Chemtrec: 1-703-527-3887
24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification

| | |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Aspiration toxicity | Category 1 - (H304) |
| Flammable liquids | Category 3 - (H226) |

Label elements



Signal Word
Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways
H319 - Causes serious eye irritation
H226 - Flammable liquid and vapor

Precautionary Statements

P331 - Do NOT induce vomiting
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Hazards not otherwise classified (HNOC)

May be harmful in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Component | CAS-No | Weight % | Trade Secret | Note |
|--------------------------------------|------------|----------|--------------|------|
| Petroleum naphtha, light aromatic | 64742-95-6 | 10 - 30 | * | |
| Naphtha (petroleum), heavy aromatic | 64742-94-5 | 10 - 30 | * | |
| 1,2,4-Trimethylbenzene (constituent) | 95-63-6 | 10 - 30 | * | 1 |
| Diacetone alcohol | 123-42-2 | 5 - 10 | * | |
| 1,3,5-Trimethylbenzene (constituent) | 108-67-8 | 1 - 5 | * | 1 |
| Naphthalene (constituent) | 91-20-3 | 1 - 5 | * | 1 |
| Cumene (constituent) | 98-82-8 | 1 - 5 | * | 1 |

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

Note 1. Type of chemical: Constituent

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. |
| 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, including 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 |
|--------------------------------------|-------------------------------------|
| Diacetone alcohol 123-42-2 | TWA: 50 ppm |
| Naphthalene (constituent) 91-20-3 | TWA: 10 ppm STEL: 15 ppm Skin |
| Cumene (constituent) 98-82-8 | TWA: 50 ppm |

| Component | OSHA PEL |
|--------------------------------------|--|
| Diacetone alcohol 123-42-2 | TWA: 50 ppm TWA: 240 mg/m ³ |
| Naphthalene (constituent) 91-20-3 | TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³ |
| Cumene (constituent) 98-82-8 | TWA: 50 ppm TWA: 245 mg/m ³ Skin |

| Component | Ontario TWAEV |
|-------------------------------|---|
| Diacetone alcohol 123-42-2 | TWA: 50 ppm TWA: 240 mg/m ³ STEL: 75 ppm |

| | |
|--------------------------------------|-------------------------------------|
| | STEL: 360 mg/m ³ |
| Naphthalene (constituent) 91-20-3 | TWA: 10 ppm STEL: 15 ppm Skin |
| Cumene (constituent) 98-82-8 | TWA: 50 ppm |

| Component | Mexico OEL (TWA) |
|--------------------------------------|--|
| Diacetone alcohol 123-42-2 | TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 240 mg/m ³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 360 mg/m ³ |
| Naphthalene (constituent) 91-20-3 | TWA/LMPE-PPT: 10 ppm TWA/LMPE-PPT: 50 mg/m ³ STEL/LMPE-CT: 15 ppm STEL/LMPE-CT: 75 mg/m ³ |
| Cumene (constituent) 98-82-8 | TWA/LMPE-PPT: 50 ppm TWA/LMPE-PPT: 245 mg/m ³ STEL/LMPE-CT: 75 ppm STEL/LMPE-CT: 365 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

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.

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.

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

| | | | |
|------------------------------|-------------------|-------------------------|--------------------------|
| Physical State | Liquid | Appearance | Colored Liquid |
| Odor | Characteristic | Odor Threshold | No information available |
| Property | Values | Remarks • Method | |
| pH | | No data available | |
| Melting point/freezing point | | No data available | |
| Boiling point/Boiling Range | > 149 °C / 300 °F | | |
| Flash Point | 46 °C / 115 °F | Setaflash closed cup | |
| Evaporation rate | | No data available | |
| Flammability Limit in Air | | | |
| Upper flammability limit | | No data available | |
| Lower flammability limit | | No data available | |
| Vapor Pressure | | No data available | |
| Vapor Density | | No data available | |
| Specific Gravity | 0.97 | | |

| | |
|---|-------------------|
| Water Solubility | No data available |
| Solubility in other solvents | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Autoignition Temperature | No data available |
| Decomposition temperature | No data available |
| Kinematic viscosity | No data available |
| Dynamic viscosity | No data available |

| | |
|-----------------------------|-------------------|
| Explosive Properties | No data available |
| Oxidizing Properties | No data available |

Other Information

| | |
|------------------------------------|-----|
| Photochemically Reactive | Yes |
| Weight Per Gallon (lbs/gal) | 8.1 |

| VOC by weight % (less water) | VOC by volume % (less water) | VOC lbs/gal (less water) | VOC grams/liter (less water) |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|
| 54.68 | 54.88 | 4.43 | 531.44 |

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 | There is no data for this product. |
| Eye Contact | There is no data for this product. |
| Skin Contact | There is no data for this product. |
| Ingestion | There is no data for this product. |

| Component | Oral LD50 |
|---|---------------------|
| Petroleum naphtha, light aromatic 64742-95-6 | 8400 mg/kg (Rat) |
| Naphtha (petroleum), heavy aromatic 64742-94-5 | >5000 mg/kg (Rat) |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | 3400 mg/kg (Rat) |
| Diacetone alcohol 123-42-2 | 4 g/kg (Rat) |
| 1,3,5-Trimethylbenzene (constituent) 108-67-8 | 5000 mg/kg (Rat) |
| Naphthalene (constituent) 91-20-3 | 490 mg/kg (Rat) |
| Cumene (constituent) | 1400 mg/kg (Rat) |

| Component | LD50 Dermal |
|---|--|
| Petroleum naphtha, light aromatic 64742-95-6 | >2000 mg/kg (Rabbit) |
| Naphtha (petroleum), heavy aromatic 64742-94-5 | >2000 mg/kg (Rabbit) |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | >3160 mg/kg (Rabbit) |
| Diacetone alcohol 123-42-2 | 13500 mg/kg (Rabbit) |
| Naphthalene (constituent) 91-20-3 | >2500 mg/kg (Rat) >20 g/kg (Rabbit) |
| Cumene (constituent) 98-82-8 | >3160 mg/kg (Rabbit) |

| Component | Inhalation LC50 |
|---|---|
| Petroleum naphtha, light aromatic 64742-95-6 | 3400 ppm (Rat) 4 h >5.2 mg/L (Rat) 4 h |
| Naphtha (petroleum), heavy aromatic 64742-94-5 | >590 mg/m ³ (Rat) 4 h |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | 18 g/m ³ (Rat) 4 h |
| 1,3,5-Trimethylbenzene (constituent) 108-67-8 | 24 g/m ³ (Rat) 4 h |
| Naphthalene (constituent) 91-20-3 | >340 mg/m ³ (Rat) 1 h |
| Cumene (constituent) 98-82-8 | 39000 mg/m ³ (Rat) 4 h |

Information on toxicological effects

Symptoms There is no data for this product.

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

Skin corrosion/irritation There is no data for this product.
Eye damage/irritation There is no data for this product.
Irritation There is no data for this product.
Corrosivity There is no data for this product.
Sensitisation There is no data for this product.
Mutagenic Effects There is no data for this product.
Reproductive Effects There is no data for this product.
STOT - single exposure There is no data for this product.
STOT - repeated exposure There is no data for this product.
Chronic Toxicity There is no data for this product.
Aspiration hazard There is no data for this product.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | IARC |
|--------------------------------------|----------|
| Naphthalene (constituent) 91-20-3 | Group 2B |
| Cumene (constituent) 98-82-8 | Group 2B |

| Component | NTP |
|--------------------------------------|------------------------|
| Naphthalene (constituent) 91-20-3 | Reasonably Anticipated |

| Component | OSHA |
|--------------------------------------|------|
| Naphthalene (constituent) 91-20-3 | X |
| Cumene (constituent) 98-82-8 | X |

Numerical measures of toxicity - Product Information

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

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 11,137.00 mg/kg |
| ATEmix (dermal) | 3,998.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 19.40 mg/l |

12. ECOLOGICAL INFORMATION**Ecotoxicity**

None known

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

| Component | Algae/aquatic plants |
|--------------------------------------|--|
| Naphthalene (constituent) 91-20-3 | 72h EC50 Skeletonema costatum: 0.4 mg/L |
| Cumene (constituent) 98-82-8 | 72h EC50 Pseudokirchneriella subcapitata: 2.6 mg/L |

| Component | Fish |
|--|--|
| Petroleum naphtha, light aromatic 64742-95-6 | 96h LC50 Oncorhynchus mykiss: 9.22 mg/L |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | 96h LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through] |
| Diacetone alcohol 123-42-2 | 96h LC50 Lepomis macrochirus: 420 mg/L 96h LC50 Lepomis macrochirus: 420 mg/L [static] |
| 1,3,5-Trimethylbenzene (constituent) 108-67-8 | 96h LC50 Pimephales promelas: 3.48 mg/L |
| Naphthalene (constituent) 91-20-3 | 96h LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static] 96h LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through] 96h LC50 Pimephales promelas: 1.99 mg/L [static] 96h LC50 Lepomis macrochirus: 31.0265 mg/L [static] |
| Cumene (constituent) 98-82-8 | 96h LC50 Pimephales promelas: 6.04 - 6.61 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static] 96h LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through] 96h LC50 Poecilia reticulata: 5.1 mg/L [semi-static] |

| Component | Crustacea |
|--|---|
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | 48h EC50 Daphnia magna: 6.14 mg/L |
| Diacetone alcohol 123-42-2 | 24h EC50 Daphnia magna: 8750 mg/L |
| 1,3,5-Trimethylbenzene (constituent) 108-67-8 | 24h EC50 Daphnia magna: 50 mg/L |
| Naphthalene (constituent) 91-20-3 | 48h EC50 Daphnia magna: 1.09 - 3.4 mg/L [static] 48h EC50 Daphnia magna: 1.96 mg/L [Flow through] 48h LC50 Daphnia magna: 2.16 mg/L |
| Cumene (constituent) 98-82-8 | 48h EC50 Daphnia magna: 7.9 - 14.1 mg/L [static] 48h EC50 Daphnia magna: 0.6 mg/L |

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

| Component | Partition coefficient |
|---|-----------------------|
| Naphtha (petroleum), heavy aromatic 64742-94-5 | 4.5 |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | 3.63 |
| Diacetone alcohol 123-42-2 | 1.03 |

| | |
|--------------------------------------|------|
| Naphthalene (constituent) 91-20-3 | 3.3 |
| Cumene (constituent) 98-82-8 | 3.55 |

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

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

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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 |
|--------------------------------------|---------|----------|-----------------------------|
| 1,2,4-Trimethylbenzene (constituent) | 95-63-6 | 10 - 30 | 1.0 |
| Naphthalene (constituent) | 91-20-3 | 1 - 5 | 0.1 |
| Cumene (constituent) | 98-82-8 | 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 % |
|---------------------------|---------|----------|
| Naphthalene (constituent) | 91-20-3 | 1 - 5 |
| Cumene (constituent) | 98-82-8 | 1 - 5 |

U.S. State Regulations

| | |
|-----------|---------------|
| Component | Massachusetts |
|-----------|---------------|

| | Right To Know |
|--|---------------|
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | X |
| Diacetone alcohol 123-42-2 | X |
| 1,3,5-Trimethylbenzene (constituent) 108-67-8 | X |
| Naphthalene (constituent) 91-20-3 | X |
| Cumene (constituent) 98-82-8 | X |

| Component | Minnesota Right To Know |
|---|----------------------------|
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | X |
| Diacetone alcohol 123-42-2 | X |
| Naphthalene (constituent) 91-20-3 | X |
| Cumene (constituent) 98-82-8 | X |

| Component | New Jersey Right To Know |
|---|-----------------------------|
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | X |
| Diacetone alcohol 123-42-2 | X |
| Naphthalene (constituent) 91-20-3 | X |
| Cumene (constituent) 98-82-8 | X |

| Component | Pennsylvania Right To Know |
|---|-------------------------------|
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | X |
| Diacetone alcohol 123-42-2 | X |
| Naphthalene (constituent) 91-20-3 | X |
| Cumene (constituent) 98-82-8 | 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 |
|---------------------------|---------------------|
| Naphthalene (constituent) | Carcinogen |
| Cumene (constituent) | Carcinogen |

Canada

| Component | NPRI - National Pollutant Release Inventory |
|---|---|
| Petroleum naphtha, light aromatic 64742-95-6 | Part 5, Other Groups and Mixtures |
| Naphtha (petroleum), heavy aromatic 64742-94-5 | Part 5, Other Groups and Mixtures 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 |
| 1,2,4-Trimethylbenzene (constituent) 95-63-6 | Part 1, Group A Substance Part 5, Individual Substances 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 |
| Diacetone alcohol 123-42-2 | 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 |

