Sun Chemical Corporation
2642 State Rd. 28W

FRANKFORT IN
USA 46041

SunChemical®
a member of the DIC group

000005

PROGRESS PRINTING COMPANY
2677 WATERLICK ROAD
LYNCHBURG, VA 24502
USA

September 20, 2023

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Color & Comfort

SAFETY DATA SHEET

Section 1. Identification

Product code : 91774332/FFFWH4182782/TBB1
GHS product identifier : WOHS PROCESS MAGENTA

Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Printing ink; Printing ink related material; Colorant

Manufacturer / Distributor : Sun Chemical Corporation
North American Inks
135 West Lake Street
Northlake, IL 60164
US: +1 708 236 3798

Emergency telephone number (with hours of operation) : +1 (800) 424-9300 (U.S.) (24 hours)
+1 (703) 527-3887 (International) (24 hours)
Other information : +1 708 236 3798
e-mail address of person responsible for this SDS : regulatory.affairs@sunchemical.com

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

Section 3. Composition/information on ingredients

Ingredient name	CAS number	%
Petroleum Middle Distillate	64741-44-2	10 - 20
Severely Treated Light Naphthenic Distillate	64742-53-6	10 - 20
Hydrotreated Middle Distillate	64742-46-7	5 - 10
White mineral oil (petroleum)	8042-47-5	2.5 - 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Remove contact lenses, if present and easy to do. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

Section 5. Fire-fighting measures

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remarks :

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Keep container tightly closed. Avoid contact with skin and eyes. Always keep in containers made from the same material as the original one. Avoid breathing dust. Avoid inhalation of vapor, spray or mist. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Comply with the health and safety at work laws.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination. Do not reuse container. See Section 10 for incompatible materials before handling or use.

Remarks: : Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. (Soybean oil)

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Severely Treated Light Naphthenic Distillate	**ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]** TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction **NIOSH REL (United States, 10/2020). [OIL MIST MINERAL]** TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist **OSHA PEL (United States, 5/2018). [Oil mist, mineral]** TWA: 5 mg/m³ 8 hours.
Hydrotreated Middle Distillate	**NIOSH REL (United States, 10/2020). [OIL MIST MINERAL]** TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist
White mineral oil (petroleum)	**ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined]** TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction **NIOSH REL (United States, 10/2020). [OIL MIST MINERAL]** TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist **OSHA PEL (United States, 5/2018). [Oil mist, mineral]** TWA: 5 mg/m³ 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 8. Exposure controls/personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Red.

Odor : Characteristic.

Odor threshold : Not applicable.

pH : Not tested

Melting point : Not available.

Boiling point : Lowest known value: 150°C (302°F)

Flash point : Lowest known value: >93.3°C (200°F)

Evaporation rate : Highest known value: <1 (Severely Treated Light Naphthenic Distillate) Weighted average: 0.9compared with butyl acetate

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Not tested

Vapor pressure : Not available.

Vapor density : Not tested

Density : 1.028 g/cm³ (8.575 lbs/gal)

Solubility : Not tested

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not applicable.

Viscosity : Kinematic (40°C): >0.205 cm²/s (>20.5 cSt)

VOC

VOC % by W/W : 40.1

VOC % by V/V : 49.0

VOC Lbs./Gallon : 3.4

VOC Lbs./Gallon without Water and exempt solvents : 3.4

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Section 10. Stability and reactivity

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
White mineral oil (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Irritation/Corrosion

The product has not been tested.

Sensitization

The product has not been tested.

Mutagenicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Carcinogenicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Reproductive toxicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Teratogenicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Petroleum Middle Distillate	ASPIRATION HAZARD - Category 1
Severely Treated Light Naphthenic Distillate	ASPIRATION HAZARD - Category 1
Hydrotreated Middle Distillate	ASPIRATION HAZARD - Category 1
White mineral oil (petroleum)	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Persistence and degradability

The product has not been tested.

Conclusion/Summary : Procedure used to derive the classification: Calculation method.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
White mineral oil (petroleum)	>6	-	high

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number					
UN proper shipping name					
Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

TSCA 8(b) inventory : Listed

U.S. Federal regulations : **TSCA 5(a)2 proposed significant new use rule (SNUR):**

Nonyl Phenol 25154-52-3 < 0.01

TSCA 8(a) PAIR: Nonyl Phenol; naphthalene

Clean Water Act (CWA) 307: naphthalene; benz[a]anthracene

Clean Water Act (CWA) 311: phosphoric acid; naphthalene

SARA 313

	Product name	CAS number	%
Supplier notification	None identified.		

Toxics in Packaging (CONEG) : In compliance.

State regulations

Massachusetts : The following components are listed: Severely Treated Light Naphthenic Distillate (64742-53-6), Hydrotreated Middle Distillate (64742-46-7), Clay (1332-58-7), White mineral oil (petroleum) (8042-47-5)

Section 15. Regulatory information

New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Hydrotreated Middle Distillate (64742-46-7), Clay (1332-58-7)
Pennsylvania	:	The following components are listed: Clay (1332-58-7), Soybean oil (8001-22-7)
Canada inventory (DSL)	:	All components are listed or exempted.

International regulations

International lists : **Australia inventory (AIIC):** Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): At least one component is not listed.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Turkey inventory: Not determined.
Europe Inventory: Please contact your supplier to get the information.

Section 16. Other information

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue/Date of revision	:	8/1/2023
Date of previous issue	:	7/10/2023
Version	:	2.03
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

FFFWH4182782

VOLATILE CHEMICALS REPORT

		US EPA Designate
A. Product Density:		
1.)	1.028 g/cm³ (8.575 lbs/gal)	=(Dc)s
B. Nonvolatile Content:		
1.)	59.9 Weight percent of nonvolatiles in product	=(Wn)s
2.)	51.1 Volume percent of nonvolatiles in product	=(Vn)s
3.)	10.05 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Volatiles:		
1.)	40.1 Weight percent of total volatiles in product	=(Wv)s
2.)	7.02 Density, lb volatiles/gal volatiles	=(Dv)s
D. Water Content:		
1.)	0.0 Weight percent of water in product	=(Ww)s
2.)	0.0 Volume percent of water in product	=(Vw)s
E. Volatile Organic Compounds, (VOCs):		
1.)	40.1 Weight percent of organic volatiles in product	=(Wo)s
2.)	49.0 Volume percent of organic volatiles in product	=(Vo)s
3.)	7.02 Density, lb organic volatiles/gal organic volatiles	=(Do)s
4.)	100.0 Weight percent of VOCs in total volatiles	=(Wo)v
5.)	100.0 Volume percent of VOCs in total volatiles	=(Vo)v
F. VOC Content in Product Expressed in Other Terms:		
1.) a.)	3.4 lb VOC / gal Product	
1.) b.)	412.04 grams VOC / liter Product	
2.) a.)	3.4 lb VOC / gal Product less water & exempt solvent	
2.) b.)	412.04 grams VOC / liter Product less water & exempt solvent	
2.) c.)	40.1 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	6.7 lb VOC / gal total nonvolatiles	

G. Volatiles

Chemical name	CAS number	% by weight	Density (lb/gal)
Hazardous Air Pollutants VOCs (HAPs)			
Other VOCs (Non-HAPs)			
Petroleum Middle Distillate	64741-44-2	19.35	6.8
Severely Treated Light Naphthenic Distillate	64742-53-6	11.66	7.34
Hydrotreated Middle Distillate	64742-46-7	5	7.17
White mineral oil (petroleum)	8042-47-5	3.74	6.76 to 7.46
LIGHT HYDROTREATED PETROL Distillate	64742-47-8	0.24	6.59 to 6.84
Lithographic varnish		0.12	8.34

NOTE:
The US EPA definition of VOC does not include water, ammonia or other exempt substances. The VOC values reported are based on current formulations and supplier data.
This report also serves as a Certified Product Data Sheet (CPDS) as defined by 40 CFR 63 National Emissions Standard for HAPS, Subpart KK for the Printing Industry