

SAFETY DATA SHEET

Section 1. Identification

Product code : FFFWH2182783/K390 GHS product identifier : WOHS PROCESS CYAN

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)

Other information

e-mail address of person responsible for this SDS

: +1 (800) 424-9300 (U.S.) (24 hours)

+1 (703) 527-3887 (International) (24 hours)

: +1 708 236 3798

: 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 : None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

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Section 3. Composition/information on ingredients

Section 3. Composition mile	CAS number	%
Ingredient name	64741-44-2	10 - 20 10 - 20
Petroleum Middle Distillate Severely Treated Light Naphthenic Distillate	64742-53-6 64741-44-2	5 - 10
Petroleum Middle Distillate Hydrotreated Middle Distillate	64742-46-7	3-10

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.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is Inhalation

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water Skin contact

or use recognized skin cleanser. Do NOT use solvents or thinners.

: If swallowed, seek medical advice immediately and show this container or label. Keep Ingestion

person warm and at rest. Do not induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

: No known significant effects or critical hazards. **Eve 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

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

: No specific treatment. Specific treatments

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam. Suitable extinguishing

media

: Do not use water jet. Unsuitable extinguishing

media

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 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

Special protective equipment for fire-fighters Remarks

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

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-

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

incompatibilities

Conditions for safe storage, : 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

Occupational exposure limits	Exposure limits
Ingredient name	ACCIH TI V (United States, 3/2019).
everely Treated Light Naphthenic Distillate	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours.
Hydrotreated Middle Distillate	NIOSH REL (United States, 10/2016). TWA: 5 mg/m³ 10 hours. Form: Mist STEL: 10 mg/m³ 15 minutes. Form: Mist

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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 sideshields.

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

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.

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 airfed 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 Odor

: Blue.

Odor threshold

: Characteristic. : Not applicable.

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Section 9. Physical and chemical properties pH

Melting point

: Not tested

: Not available.

Boiling point

: Lowest known value: 100°C (212°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)

Lower and upper explosive

Not available. : Not tested

(flammable) limits

Vapor pressure Vapor density

: Not available. : Not tested

Density

: 0.986 g/cm³ (8.225 lbs/gal)

Solubility Partition coefficient: n-

: Not tested

octanol/water

: Not applicable.

Auto-ignition temperature Decomposition temperature

: Not applicable. : Not applicable.

Viscosity

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

VOC

VOC % by W/W VOC % by V/V

: 44.6

VOC Lbs./Gallon

: 53.8 : 3.7

VOC Lbs./Gallon without

Water and exempt

: 3.9

solvents

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.

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

The product has not been tested.

Conclusion/Summary

: Procedure used to derive the classification: Calculation method.

Irritation/Corrosion

The product has not been tested.

Section 11. Toxicological information

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	Result
Name Petroleum Middle Distillate Severely Treated Light Naphthenic Distillate Petroleum Middle Distillate Hydrotreated Middle Distillate	ASPIRATION HAZARD - Category 1

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact Inhalation

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

Skin contact Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data.

Inhalation Skin contact : No specific data. : 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

: Not available.

effects

: Not available. Potential delayed effects

Long term exposure

Potential immediate

: Not available.

effects

Section 11. Toxicological information

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

Route	ATE value	
Oral Dermal Inhalation (dusts and mists)	5753.74 mg/kg 12658.23 mg/kg 17.26 mg/l	

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

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: 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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Olassilloudes		UN3082	UN3082	UN3082
UN proper shipping name			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Middle Distillate, Petroleum Middle Distillate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Middle Distillate, Petroleum Middle Distillate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Middle Distillate, Petroleum Middle Distillate)
Transport hazard class(es)	Not regulated.	Not regulated.	9	9	9
Packing group	-	-	III	III	III
Environmental hazards	No.	No.	Yes.	Yes.	Yes.
Additional information	-	-	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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

TSCA 8(a) PAIR: Dipropylene Glycol Monobutyl Ether; Nonyl Phenol; naphthalene Clean Water Act (CWA) 307: C.I. Pigment Blue 15:3; Proprietary Additive; C.I. Pigment Green 7; C.I. Pigment Blue 15; Ethyl Benzene; benz[a]anthracene; naphthalene Clean Water Act (CWA) 311: Ethyl Benzene; xylene; naphthalene; propylene oxide

SARA 313

ARA 313		0/
Product name	CAS number	%
None identified.		

Toxics in Packaging (CONEG)

: In compliance.

Section 15. Regulatory information

State regulations

Massachusetts

: The following components are listed: Severely Treated Light Naphthenic Distillate

New York

New Jersey

(64742-53-6), Hydrotreated Middle Distillate (64742-46-7), Clay (1332-58-7)

: The following components are listed: C.I. Pigment Blue 15:3 (147-14-8), Hydrotreated

Middle Distillate (64742-46-7), Clay (1332-58-7)

: The following components are listed: C.I. Pigment Blue 15:3 (147-14-8), Soybean oil (8001-22-7), Clay (1332-58-7)

Canada inventory

Pennsylvania

International regulations

International lists

: At least one component is not listed.

: Australia inventory (AIIC): Not determined. China inventory (IECSC): Not determined.

Japan inventory (CSCL): At least one component is not listed. Korea inventory (KECI): 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.)

Health

Flammability

Instability/Reactivity

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History

Date of issue/Date of

revision

: 2/6/2023

Date of previous issue

: 9/12/2022

Version

: 1.01

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

FFFWH2182783/K390

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

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.

VOLATILE CHEMICALS REPORT

	CALLERY CONTRACTOR CON	US EPA
	duct Density:	Designate
1.)	0.986 g/cm³ (8.225 lbs/gal)	-(D-)
R Non	volatile Content:	=(Dc)s
1.)		
2.)	51.4 Weight percent of nonvolatiles in product	=(Wn)s
3.)	42.2 Volume percent of nonvolatiles in product	=(Vn)s
0.,	10.02 Density, lb nonvolatiles/gal nonvolatiles	=(Dn)s
C. Vola	tiles:	
1.)	48.6 Weight percent of total volatiles in product	
2.)	6.91 Density, lb volatiles/gal volatiles	=(Wv)s
	y, a voidillos/gai voidilles	=(Dv)s
D. Wate	er Content:	
1.)	0.0 Weight percent of water in product	
2.)	0.0 Volume percent of water in product	=(Ww)s
		=(Vw)s
E. Volat	le Organic Compounds, (VOCs):	
1.)	44.6 Weight percent of organic volatiles in product	-/\4/_\
2.)	53.8 Volume percent of organic volatiles in product	=(Wo)s
3.)	6.82 Density, Ib organic volatiles/gal organic volatiles	=(Vo)s
4.)	91.8 Weight percent of VOCs in total volatiles	=(Do)s
5.)	93.0 Volume percent of VOCs in total volatiles	=(Wo)v =(Vo)v
F. VOC	Content in Product Expressed in Other Terms:	() .
1.) a.)	3.7 lb VOC / gal Product	
1.) b.)	439.54 grams VOC / liter Product	
2.) a.)	3.9 lb VOC / gal Product less water & exempt solvent	
2.) b.)	472.66 grams VOC / liter Product less water & exempt solvent	
2.) c.)	46.4 Weight percent of organic volatiles (VOC) in Product less water & exempt solvents.	
3.)	8.7 lb VOC / gal total nonvolatiles	

G. Volatiles

G. Volatiles	CAS number	% by weigh	nt Density (lb/gal)
Chemical name Hazardous Air Pollutants VOCs (HAPs) Other VOCs (Non-HAPs) Petroleum Middle Distillate Severely Treated Light Naphthenic Distillate Petroleum Middle Distillate Hydrotreated Middle Distillate Dipropylene Glycol Monobutyl Ether LIGHT HYDROTREATED PETROL Distillate Severely Hydrotreated Light Naphthenic Distillate Lithographic varnish Other Non-VOC, Non-HAP Volatiles	64741-44-2 64742-53-6 64741-44-2 64742-46-7 29911-28-2 64742-47-8 64742-53-6	17.14 11.2 8.69 6.11 0.99 0.19 0.18 0.1 4	6.8 7.34 6.8 7.17 7.65 6.59 to 6.84 7.37 8.34 8.34

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



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FRANKFORT USA

IN 46041



000075

PROGRESS PRINTING COMPANY 2677 WATERLICK ROAD LYNCHBURG, VA 24502 USA

February 16, 2023

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