



SAFETY DATA SHEET

Section 1. Identification

Manufacturer CHS Inc. P.O. Box 64089 Mail station 573 St. Paul, MN 55164-0089	Transportation Emergency (CHEMTREC) : 1-800-424-9300 CCN23163	Technical Information : 1-651-355-8443	SDS Information : 1-651-355-8445
Product name : MAXTRON R&O ISO 68, 150, 220, 460, 320	SDS no. : 0200-Severus	Revision date : 07/15/2020	Chemical formula : Mixture
Common name : Synthetic Gear and Bearing Oil (ISO 68,150,220,320,460)			
Chemical name : Lubricating oil.			
Chemical family : Hydrocarbon.			
Relevant identified uses of the substance or mixture and uses advised against			
Not available.			

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).		
Classification of the substance or mixture	: SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3		
GHS label elements			
Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements			
General	:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.	
Prevention	:	Wear protective gloves. Avoid release to the environment. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.	
Response	:	Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.	
Storage	:	Not applicable.	
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazards not otherwise classified	:	None known.	
Hazardous Material Information System (U.S.A.)	Health :	2 /	Flammability : 1 Physical hazards : 0
National Fire Protection Association (U.S.A.)	Health :	2	Flammability : 1 Instability : 0

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture		
Chemical name	: Lubricating oil.		
Other means of identification	: Synthetic Gear and Bearing Oil (ISO 68,150,220,320,460)		
Ingredient name	%	CAS number	
Distillates (petroleum), hydrotreated heavy paraffinic	≥50 - ≤75	64742-54-7	
N-1-naphthylaniline	≤0.3	90-30-2	
Diphenyl tolyl phosphate	≤0.3	26444-49-5	
Triphenyl phosphate	≤0.3	115-86-6	
tris(Methylphenyl) phosphate	≤0.014	1330-78-5	

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

There are no 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** : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.
- Inhalation** : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.
- Skin contact** : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.
- Ingestion** : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

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** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness.
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing.
- Skin contact** : Adverse symptoms may include the following: irritation, redness.
- Ingestion** : No known significant effects or critical hazards.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : Toxic fumes gases or vapors may evolve on burning.
- Hazardous thermal decomposition products** : No specific data.
- Special protective actions for fire-fighters** : When fighting fires wear full turnout gear and self contained breathing apparatus. Water may cause splattering. Material floats on water.
- Special protective equipment for fire-fighters** : Not applicable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

- Spill** : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- 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.
- Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2018). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Mist STEL: 10 mg/m ³ 15 minutes. Form: Mist
Triphenyl phosphate	ACGIH TLV (United States, 3/2019). TWA: 3 mg/m ³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 3 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 3 mg/m ³ 8 hours.

- Appropriate engineering controls** : Use only with adequate ventilation.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- 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. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Recommended: Splash goggles and a face shield, where splash hazard exists.
- Skin protection**
- Hand protection** : 4 - 8 hours (breakthrough time): Nitrile gloves.
- Body protection** : Recommended: Long sleeved coveralls.
- Other skin protection** : Recommended: Impervious boots.
- Respiratory protection** : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid. [Transparent.]	Relative density	: 0.84 to 0.895
Color	: Straw. [Light]	Evaporation rate	: Not available.
Odor	: Mild hydrocarbon.	Solubility	: Insoluble in the following materials: cold water and hot water.
Odor threshold	: Not available.	Solubility in water	: Insoluble
pH	: Not available.	Partition coefficient: n-octanol/water	: Not available.
Melting point	: Not available.	Auto-ignition temperature	: Not available.
Boiling point	: Not available.	Decomposition temperature	: Not available.
Flash point	: Closed cup: >255°C (>491°F)	SADT	: Not available.
Flammability	: Not available.	Viscosity	: Not available.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : <0.13 kPa (<1 mm Hg) (68°F)

Vapor density : Not available.

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	: Reactive or incompatible with the following materials: oxidizing materials.
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
N-1-naphthylaniline	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1625 mg/kg	-
Diphenyl tolyl phosphate	LD50 Oral	Rat	1420 mg/kg	-
Triphenyl phosphate	LD50 Dermal	Rabbit	>7900 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
tris(Methylphenyl) phosphate	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Oral	Rat	3 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-1-naphthylaniline	Skin - Mild irritant	Rabbit	-	50 %	-
	Skin - Mild irritant	Rabbit	-	4 hours 5 %	-
tris(Methylphenyl) phosphate	Skin - Mild irritant	Rabbit	-	1008 hours 5 % I	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
N-1-naphthylaniline	Skin	Guinea pig	Sensitizing

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
N-1-naphthylaniline	Category 2	-	-

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Triphenyl phosphate	Acute EC50 2000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 225 µg/L Fresh water	Fish - Oncorhynchus mykiss - Fingerling	96 hours
tris(Methylphenyl) phosphate	Acute LC50 0.53 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 55 µg/L Fresh water	Fish - Oncorhynchus mykiss - Fingerling	30 days
	Acute EC50 290 µg/L Fresh water	Algae - Stephanodiscus hantzschii - Exponential growth phase	96 hours
	Acute EC50 3600 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 170 µg/L Fresh water	Fish - Gasterosteus aculeatus	96 hours
	Chronic NOEC 0.32 µg/L Fresh water	Fish - Gasterosteus aculeatus - Egg	35 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
N-1-naphthylaniline	4.28	1424	high
Diphenyl tolyl phosphate	4.5	323.59	low
Triphenyl phosphate	4.63	144	low
tris(Methylphenyl) phosphate	5.93	794.33	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

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

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER Not applicable. **DOT proper shipping name** Not applicable.

DOT Hazard Class(es) Not applicable. **PG** Not applicable. **DOT-TDG EMER. RESPONSE GUIDE NO.** Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: N-1-naphthylaniline; Naphthalene
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are active or exempted.
Clean Water Act (CWA) 307: Ethylbenzene; Naphthalene; Benzene
Clean Water Act (CWA) 311: Ethylbenzene; Naphthalene; Benzene; Xylene

Clean Air Act Section 602 Class I Substances : Not listed **DEA List I Chemicals (Precursor Chemicals)** : Not listed
Clean Air Act Section 602 Class II Substances : Not listed **DEA List II Chemicals (Essential Chemicals)** : Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Hazard classifications : SKIN SENSITIZATION - Category 1

Composition/information on ingredients

Name	Classification
N-1-naphthylaniline	ACUTE TOXICITY (oral) - Category 4 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SARA 313 : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Not applicable.		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Distillates (petroleum), hydrotreated heavy paraffinic

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Ethylbenzene and Naphthalene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Ethylbenzene	Yes.	-
Naphthalene	Yes.	-
Benzene	Yes.	Yes.

Section 16. Other information

Revision date : 07/15/2020

Supersedes : 04/15/2015

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Prepared by : KMK Regulatory Services Inc.

Notice to reader

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), CHS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.



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