

NS-10204-FG Syn-Tech Ltd.

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **04/08/2022** Print Date: **04/08/2022** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

1 Todact identifier		
Product name	NS-10204-FG	
Synonyms	Not Available	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses Lubricant

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Syn-Tech Ltd.
Address	1550 W. Fullerton Ave Illinois United States
Telephone	630-628-7290
Fax	Not Available
Website	www.syn-techlube.com
Email	msds@syn-techlube.com

Emergency phone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Acute Toxicity (Inhalation) Category 4, Aspiration Hazard Category 1

Label elements

Hazard pictogram(s)





Signal word

Danger

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H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fumes.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.	
P331	NOT induce vomiting.	
P312	all a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
163149-28-8	0.78	1-octene, 1-decene, 1-dodecene copolymer hydrogenated
68649-12-7	0.78	1-decene trimer and tetramer, hydrogenated
151006-60-9	0.78	1-dodecene polymer with 1-decene, hydrogenated
68649-11-6	25.5	1-decene dimer, hydrogenated
151006-58-5	25.5	1-dodecene, dimer with 1-decene, hydrogenated

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact	► Generally not applicable.
Skin Contact	► Generally not applicable.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. Generally not applicable.
Ingestion	 Generally not applicable. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

► Foam.

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- Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide.
- ► Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

- Alert Fire Brigade and tell them location and nature of hazard.
 - Wear breathing apparatus plus protective gloves.
 - Prevent, by any means available, spillage from entering drains or water courses.
 - ▶ Use water delivered as a fine spray to control fire and cool adjacent area.
- DO NOT approach containers suspected to be hot.
 - Cool fire exposed containers with water spray from a protected location.
 - If safe to do so, remove containers from path of fire.
 - Figure and the Equipment should be thoroughly decontaminated after use.

Slight hazard when exposed to heat, flame and oxidisers.

Fire Fighting

Combustible. Will burn if ignited. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2)

Fire/Explosion Hazard

other pyrolysis products typical of burning organic material.

May emit poisonous fumes

Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.

Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Secure load if safe to do so. Bundle/collect recoverable product. Collect remaining material in containers with covers for disposal.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services. Clean up all spills immediately. Wear protective clothing, safety glasses, dust mask, gloves. Secure load if safe to do so. Bundle/collect recoverable product. Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use). Water may be used to prevent dusting. Collect remaining material in containers with covers for disposal.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

Flush spill area with water.

SECTION 7 Handling and storage

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Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- ▶ DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
- ▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Other information

Safe handling

► Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container

Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.

Storage incompatibility

Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	1-decene trimer and tetramer, hydrogenated	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	1-decene dimer, hydrogenated	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
1-decene trimer and tetramer, hydrogenated	2 mg/m3	22 mg/m3	130 mg/m3
1-decene dimer, hydrogenated	140 mg/m3	1,500 mg/m3	8,900 mg/m3

Ingredient	Original IDLH	Revised IDLH
1-octene, 1-decene, 1-dodecene copolymer hydrogenated	Not Available	Not Available
1-decene trimer and tetramer, hydrogenated	2,500 mg/m3	Not Available
1-dodecene polymer with 1-decene, hydrogenated	Not Available	Not Available
1-decene dimer, hydrogenated	2,500 mg/m3	Not Available
1-dodecene, dimer with 1-decene, hydrogenated	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
1-dodecene, dimer with 1-decene, hydrogenated	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into sadverse health outcomes associated with exposure. The output of this processing of exposure concentrations that are expected to protect worker hea	ocess is an occupational exposure band (OEB), which corresponds to a

Exposure controls

Appropriate engineering controls

Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.

Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

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Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate

protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.

An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Personal protection









Eye and face protection

- Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

No special equipment required due to the physical form of the product.

Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	See Other protection below
Other protection	Overalls. PV.C apron. Barrier cream.

- Skin cleansing cream.
- Eye wash unit.

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Respiratory protection not normally required due to the physical form of the product.

SECTION 9 Physical and chemical properties

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Information on basic physical and chemical properties

Appearance	Tan to cream grease, petroleum odor		
Physical state	Manufactured	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological ef	ffects	
Inhaled	The material is not thought to produce respiratory irritation (as classified material, especially for prolonged periods, may produce respiratory disconnalization of aerosols (mists, fumes), generated by the material during the	mfort and occasionally, distress.
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk (ICSC13733) The material is not thought to produce adverse health effects following in Nevertheless, adverse systemic effects have been produced following ex requires that exposure be kept to a minimum.	gestion (as classified by EC Directives using animal models).
Skin Contact	Skin contact is not thought to produce harmful health effects (as classifier has been identified following exposure of animals by at least one other rothrough wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this materiate Entry into the blood-stream, through, for example, cuts, abrasions or lesion prior to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of the material and ensure that any external damage is sufficient to the use of	oute and the material may still produce health damage following entry al ons, may produce systemic injury with harmful effects. Examine the skin
Еуе	Although the material is not thought to be an irritant (as classified by EC characterised by tearing or conjunctival redness (as with windburn).	Directives), direct contact with the eye may produce transient discomfort
Chronic	Long-term exposure to the product is not thought to produce chronic effe models); nevertheless exposure by all routes should be minimised as a n	, ,
NS-10204-FG	TOXICITY	IRRITATION
	Not Available	Not Available

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	TOXICITY	IRRITATION			
1-octene, 1-decene, 1-dodecene copolymer	dermal (rat) LD50: >2000 mg/kg ^[1] Not Available				
hydrogenated	Inhalation(Rat) LC50; 0.9 mg/l4h ^[1]				
	Oral (Rat) LD50; >2000 mg/kg ^[1]				
	тохісіту	IRRITATION			
1-decene trimer and tetramer,	Dermal (rabbit) LD50: >1638 mg/kg ^[1]	Skin (rabbit): 1.3	3/8 - mild *		
hydrogenated	Inhalation(Rat) LC50; 0.9 mg/l4h ^[1]				
	Oral (Rat) LD50; >2000 mg/kg ^[1]				
	TOXICITY	IRRITATION			
1-dodecene polymer with	dermal (rat) LD50: >2000 mg/kg ^[1]	Eye: practically	non-irritatingDermal		
1-decene, hydrogenated	Inhalation(Rat) LC50; 0.9 mg/l4h ^[1]	primary irritation	index		
	Oral (Rat) LD50; >2000 mg/kg ^[1]	Skin: practically	non-irritating		
	TOXICITY	IRRITATION			
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available			
1-decene dimer, hydrogenated	Inhalation(Rat) LC50; 0.9 mg/l4h ^[1]				
	Oral (Rat) LD50; >2000 mg/kg ^[1]				
	TOXICITY	IRRITATION			
	dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available			
1-dodecene, dimer with 1-decene, hydrogenated		Not Available			
r doone, nydrogenated	Inhalation(Rat) LC50; 0.9 mg/l4h ^[1]				
	Oral (Rat) LD50; >2000 mg/kg ^[1]				
Legend:	 Value obtained from Europe ECHA Registered Sul specified data extracted from RTECS - Register of To 		ained from manufacturer's SDS. Unless otherwise		
1-DECENE DIMER, HYDROGENATED	* REACH Dossier				
1-DODECENE, DIMER WITH 1-DECENE, HYDROGENATED	* US EPA HPV Challenge Program; 1-decene, tetram	er, mixed with 1-decene trimer, hydrog	genated October 2002		
1-OCTENE, 1-DECENE, 1-DODECENE COPOLYMER HYDROGENATED & 1-DODECENE POLYMER WITH 1-DECENE, HYDROGENATED	* US EPA HPV Challenge Program October 2002				
1-OCTENE, 1-DECENE, 1-DODECENE COPOLYMER HYDROGENATED & 1-DECENE TRIMER AND TETRAMER, HYDROGENATED & 1-DODECENE POLYMER WITH 1-DECENE, HYDROGENATED & 1-DECENE DIMER, HYDROGENATED & 1-DODECENE, DIMER WITH	For poly-alpha-olefins (PAOs): PAOs are highly branched, isoparaffinic chemicals produced by oligomerisation of 1-octene, 1-decene and/or 1-dodecene. The crude polyalphaolefin mixture is then distilled into appropriate product fractions to meet specific viscosity specifications and hydrogenated. In existing data, there appears to be no data to show that these structural analogs cause health effects. In addition, there is evidence in the literature that alkanes with 30 or more carbon atoms are unlikely to be absorbed when given by mouth. The physical and chemical properties make it unlikely that significant absorption into the body will occur. There are also no functional groups on PAO molecules that are biologically active. PAOs also have low volatility, so that exposure is unlikely to occur by inhalation. The high viscosity of these substances also makes it hard to generate a high concentration of breathable particles in air. Acute toxicity: Animal testing shows that PAOs have relatively low acute toxicity. Repeat dose toxicity: Animal testing shows that PAOs show low repeat dose toxicity – some increased scaling of the skin occurred, with skin inflammation, after exposure at high doses. Reproductive toxicity: Animal testing suggested that application of PAO to skin did not impair reproductive performance.				
1-DECENE, HYDROGENATED	Cancer-causing potentials: Animal testing has not sho	Genetic toxicity: Testing has not shown any evidence that PAOs cause mutations or chromosomal aberrations. Cancer-causing potentials: Animal testing has not shown any propensity to cause tumours. While alpha-olefin polymers have similar properties to mineral oils, they do not contain polycyclic aromatic hydrocarbons, or other known cancer-causing materials.			
Acute Toxicity	✓	Carcinogenicity	×		
Skin Irritation/Corrosion	×	Reproductivity	×		
		STOT - Single Exposure			
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×		

Legend:

Aspiration Hazard

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

Mutagenicity

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· · · ·					
	Endpoint	Test Duration (hr)	Species	Value	Source
NS-10204-FG	Not Available	Not Available	Not Available	Not Available	Not Available

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1-octene, 1-decene,	Endpoint	Test Duration (hr)	Species	Value	Source
1-dodecene copolymer hydrogenated	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
1-decene trimer and tetramer, hydrogenated	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>1000mg/l	2
1-dodecene polymer with 1-decene, hydrogenated	EC50	48h	Crustacea	>1000mg/l	2
r-decerie, flydrogenated	EC50(ECx)	72h	Algae or other aquatic plants	>1000mg/l	2
	LC50	96h	Fish	>1000mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	48h	Crustacea	1000mg/l	Not Available
1-decene dimer, hydrogenated	EC50	48h	Crustacea	1000mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	1000mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>1000mg/l	2
1-dodecene, dimer with	EC50	48h	Crustacea	230mg/l	2
1-decene, hydrogenated	NOEC(ECx)	48h	Crustacea	19mg/l	2
	LC50	96h	Fish	>1000mg/l	2
Legend:	Ecotox databas		egistered Substances - Ecotoxicological Informatic tic Hazard Assessment Data 6. NITE (Japan) - Bio		

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
 Where in doubt contact the responsible authority.
 - Recycle wherever possible or consult manufacturer for recycling options.
 - ▶ Consult State Land Waste Authority for disposal.
 - Bury or incinerate residue at an approved site.
 - Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required

Marine Pollutant

NO

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Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

•	
Product name	Group
1-octene, 1-decene, 1-dodecene copolymer hydrogenated	Not Available
1-decene trimer and tetramer, hydrogenated	Not Available
1-dodecene polymer with 1-decene, hydrogenated	Not Available
1-decene dimer, hydrogenated	Not Available
1-dodecene, dimer with 1-decene, hydrogenated	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
1-octene, 1-decene, 1-dodecene copolymer hydrogenated	Not Available
1-decene trimer and tetramer, hydrogenated	Not Available
1-dodecene polymer with 1-decene, hydrogenated	Not Available
1-decene dimer, hydrogenated	Not Available
1-dodecene, dimer with 1-decene, hydrogenated	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

1-octene, 1-decene, 1-dodecene copolymer hydrogenated is found on the following regulatory lists

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

1-decene trimer and tetramer, hydrogenated is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

1-dodecene polymer with 1-decene, hydrogenated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

1-decene dimer, hydrogenated is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

1-dodecene, dimer with 1-decene, hydrogenated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

,	
Flammable (Gases, Aerosols, Liquids, or Solids)	
Gas under pressure	No
Explosive	No
Self-heating	No

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Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	Yes
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including 1-decene trimer and tetramer, hydrogenated, 1-decene dimer, hydrogenated, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (1-octene, 1-decene, 1-dodecene copolymer hydrogenated; 1-decene trimer and tetramer, hydrogenated; 1-dodecene polymer with 1-decene, hydrogenated; 1-decene dimer, hydrogenated; 1-dodecene, dimer with 1-decene, hydrogenated)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (1-octene, 1-decene, 1-dodecene copolymer hydrogenated; 1-decene trimer and tetramer, hydrogenated; 1-dodecene polymer with 1-decene, hydrogenated; 1-dodecene, dimer with 1-decene, hydrogenated)
Japan - ENCS	No (1-octene, 1-decene, 1-dodecene copolymer hydrogenated; 1-dodecene, dimer with 1-decene, hydrogenated)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	No (1-dodecene polymer with 1-decene, hydrogenated)
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (1-octene, 1-decene, 1-dodecene copolymer hydrogenated; 1-decene trimer and tetramer, hydrogenated; 1-dodecene polymer with 1-decene, hydrogenated; 1-decene dimer, hydrogenated; 1-dodecene, dimer with 1-decene, hydrogenated)
Vietnam - NCI	No (1-dodecene, dimer with 1-decene, hydrogenated)
Russia - FBEPH	No (1-octene, 1-decene, 1-dodecene copolymer hydrogenated; 1-dodecene polymer with 1-decene, hydrogenated; 1-dodecene, dimer with 1-decene, hydrogenated)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	04/08/2022
Initial Date	05/08/2022

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

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IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit $_{\circ}$

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers
ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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