

Syn-Tech Ltd.

Version No: **1.1** Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Chemwatch Hazard Alert Code: 2

Issue Date: 06/02/2023 Print Date: 06/02/2023 S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	NS-2222-G
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 60101 United States		
Telephone	630-628-7290		
Fax	Not Available		
Website	www.syn-techlube.com		
Email	msds@syn-techlube.com		

Emergency phone number

Association / Organisation	Syn-Tech Ltd.
Emergency telephone numbers	630-628-7290
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

Specific Target Organ Toxicity - Repeated Exposure Category 2, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3

Hazard pictogram(s)	
Signal word	Warning

Hazard statement(s)

H373	May cause damage to organs through prolonged or repeated exposure. (Kidneys) (Oral, Dermal, Inhalation)	
H317	May cause an allergic skin reaction.	
H412	Harmful to aquatic life with long lasting effects.	

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves and protective clothing.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	2 Contaminated work clothing must not be allowed out of the workplace.	

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
68037-01-4	43	1-decene homopolymer, hydrogenated
125643-61-0	0.2	C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate
68411-46-1.	0.2	alkaryl amine
94270-86-7	0.2	N-alkylated benzotriazole
27859-58-1	0.05	dodecenylsuccinic acid
64742-53-6.	0.05	naphthenic distillate, light, hydrotreated (severe)

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

Eye Contact

If this product comes in contact with eyes: • Wash out immediately with water. Page 3 of 16

NS-2222-G

	 If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 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

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- ▶ Foam.
- 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

Fire Fighting	 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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns. Foaming may cause overflow of containers and may result in possible fire.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Version	No:	1.1

Page 4 of 16

NS-2222-G

Continued...

Methods and material for containment and cleaning up

Minor Spills	 Slippery when spilt. Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water.
Major Spills	 Slippery when spilt. 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.

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

SECTION 7 Handling and storage

Precautions for safe handling

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	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Formaldehyde: is a strong reducing agent may polymerise in air unless properly inhibited (usually with methanol up to 15%) and stored at controlled temperatures will polymerize with active organic material such as phenol reacts violently with strong oxidisers, hydrogen peroxide, potassium permanganate, acrylonitrile, caustics (sodium hydroxide, yielding formic acid and flammable hydrogen), magnesium carbonate, nitromethane, nitrogen oxides (especially a elevated temperatures), peroxyformic acid is incompatible with strong acids (hydrochloric acid forms carcinogenic bis(chloromethyl)ether*), amines, ammonia, aniline, bisulfides, gelatin, iodine, magnesite, phenol, some monomers, tannins, salts of copper, iron, silver. acid catalysis can produce impurities: methylal, methyl formate Aqueous solutions of formaldehyde: slowly oxidise in air to produce formic acid

▶ attack carbon steel
Concentrated solutions containing formaldehyde are:
• unstable, both oxidising slowly to form formic acid and polymerising; in dilute aqueous solutions formaldehyde appears as
monomeric hydrate (methylene glycol) - the more concentrated the solution the more polyoxymethylene glycol occurs as
oligomers and polymers (methanol and amine-containing compounds inhibit polymer formation)
readily subject to polymerisation, at room temperature, in the presence of air and moisture, to form paraformaldehyde (8-100
units of formaldehyde), a solid mixture of linear polyoxymethylene glycols containing 90-99% formaldehyde; a cyclic trimer,
trioxane (CH2O3), may also form
Flammable and/or toxic gases are generated by the combination of aldehydes with azo, diazo compounds, dithiocarbamates,
nitrides, and strong reducing agents
*The empirical equation may be used to determine the concentration of bis(chloromethyl)ether (BCME) formed by reaction with
HCI:
log(BCME)ppb = -2.25 + 0.67• log(HCHO) ppm + 0.77• log(HCl)ppm
Assume values for formaldehyde, in air, of 1 ppm and for HCl of 5 ppm, resulting BCME concentration, in air, would be 0.02 ppb.
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	alkaryl amine	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	alkaryl amine	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	alkaryl amine	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	alkaryl amine	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	alkaryl amine	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	naphthenic distillate, light, hydrotreated (severe)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
1-decene homopolymer, hydrogenated	30 mg/m3	330 mg/m3		2,000 mg/m3
naphthenic distillate, light, hydrotreated (severe)	1,100 mg/m3	1,800 mg/m3		40,000 mg/m3
Ingradiant			Revised IDLH	
Ingredient	Original IDLH		Revised IDLH	
1-decene homopolymer, hydrogenated	Not Available		Not Available	
C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available		Not Available	
alkaryl amine	Not Available		Not Available	
N-alkylated benzotriazole	Not Available		Not Available	
dodecenylsuccinic acid	Not Available		Not Available	
naphthenic distillate, light, hydrotreated (severe)	2,500 mg/m3		Not Available	

Occupational Exposure Banding

Ingredient

Occupational Exposure Band Rating

Occupational Exposure Band Limit

Continued...

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit			
N-alkylated benzotriazole	E	≤ 0.1 ppm		
dodecenylsuccinic acid	> 1 to ≤ 10 parts per million (ppm)			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.			

Exposure controls

Appropriate engineering controls	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 'ramoves' ari in the work environment. Ventilation can remove or dilute an air contaminant if designed property. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. 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: interquired to effectively remove the contaminant. Type of Contaminant: $interquired to effectively remove the contaminent. Newleding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) frind in actions, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) frind zone of varyi high rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity 2.5-10 m/s (500-2000 f/min.) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity 2.5-10 m/s (500-2000 f/min.) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity 1.2.5 m/s (200-50$				
Individual protection					
measures, such as personal protective equipment					
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] 				
Skin protection	See Hand protection below				

Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
Body protection	See Other protection below
Other protection	 Overalls. P.V.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(AII 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)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	cream to tan grease, bland odor		
Physical state	Gel	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 Available
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 (1%)	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 effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation hazard is increased at higher temperatures. Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	Although the material is not thought to be an irritant transient discomfort characterised by tearing or conj	(as classified by EC Directives), direct contact with the eye may produce unctival redness (as with windburn).	
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.		
NS-2222-G	ΤΟΧΙΟΙΤΥ	IRRITATION	
NS-2222-G	TOXICITY Not Available	IRRITATION Not Available	
NS-2222-G			
NS-2222-G 1-decene homopolymer,	Not Available	Not Available	
	Not Available TOXICITY	Not Available IRRITATION	
1-decene homopolymer,	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant	
1-decene homopolymer, hydrogenated	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant	
1-decene homopolymer,	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant *** [Uniroyal]	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di-	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant **** [Uniroyal] IRRITATION	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl-	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant *** [Uniroyal] IRRITATION Eye (rabbit: non-irritating *	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl-	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant *** [Uniroyal] IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating *	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl-	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] TOXICITY	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant **** [Uniroyal] IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * IRRITATION IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * IRRITATION	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant *** [Uniroyal] IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * Skin (rat): non-irritating * IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * Eye (rabbit): Non Irritant	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant **** [Uniroyal] IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * Skin (rat): non-irritating * IRRITATION Eye (rabbit: Non Irritant Eye (rabbit): Non Irritant Eye (rabbit): Non Irritant Eye: adverse effect observed (irritating) ^[1]	
1-decene homopolymer, hydrogenated C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: 0.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: >2000 mg/kg ^[2] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	Not Available IRRITATION Eye*(rabbit):0-4/110.0-nonirritant Skin**(rabbit)-0.5/8.0-nonirritant *** [Uniroyal] IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * Skin (rat): non-irritating * IRRITATION Eye (rabbit: non-irritating * Skin (rat): non-irritating * Skin (rat): non-irritating * Skin (rat): Non Irritant Eye (rabbit): Non Irritant [Bay]	

	Oral (Rat) LD50: 3300 mg/kg ^[2]	
	ΤΟΧΙCΙΤΥ	IRRITATION
dodecenylsuccinic acid	Oral (Rat) LD50: 2100 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]
		Skin: adverse effect observed (irritating) ^[1]
	TOXICITY	IRRITATION
naphthenic distillate, light,	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
hydrotreated (severe)	Inhalation(Rat) LC50: 2.18 mg/l4h ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >5000 mg/kg ^[2]	
Legend:		ubstances - Acute toxicity 2. Value obtained from manufacturer's SDS. ECS - Register of Toxic Effect of chemical Substances
1-DECENE HOMOPOLYM HYDROGENAT	 The crude polyalphaolefin mixture is then distill and hydrogenated. In existing data, there appears to be no data to evidence in the literature that alkanes with 30 c physical and chemical properties make it unlike functional groups on PAO molecules that are b occur by inhalation. The high viscosity of these breathable particles in air. Acute toxicity: Animal testing shows that PAOs Repeat dose toxicity: Animal testing shows that occurred, with skin inflammation, after exposur Reproductive toxicity: Animal testing suggested Genetic toxicity: Testing has not shown any evid Cancer-causing potentials: Animal testing has 	t PAOs show low repeat dose toxicity - some increased scaling of the skin
C7-9 BRANCHED ALKYL-3,5 TERT-BUT 4-HYDROXYHYDROCINNAM	YL- Data show that acute toxicity following oral and	Chemical MSDS d topical use of hindered phenols is low. They are not proven to cause the liver, thyroid, kidney and lymph nodes. Liver tumours have been reported
N-ALKYLAT BENZOTRIAZO	aromatic hydrocarbons and dioxins, which are known stable and toxic ligands. The polycyclic aromatic hydrocarbon the	

metabolism was low (<5% of the total amount added) Oral acute studies in rats and mice yielded LD50 values that ranged from 560 to 909 mg/kg. Intraperitoneal LD50 values in mice and rats ranged from 400-1000 and 500-900 mg/kg, respectively. A mouse intravenous LD50 of 238 mg/kg was identified. Dermal LD50 values were =1000 mg/kg in rats and rabbits, and inhalation LC50 values in rats were 1.5 mg/L and 1.91 mg/L/3 hours). Subchronic and short-term studies showed that oral administration to mice produced minimal effects on body weight while dose-dependent decreases in body weight were observed in rats. Endocrine effects, normocytic anemia, and leukopenia were noted in rats dosed for 26 weeks. The TDLo was 109 mg/kg. No effects on deaths and no clinical symptoms were noted in mice or rats orally administered (in food) benzotriazole =78 weeks. Additionally, no dose-related effects on reproductive organs were noted in either sex. Neoplastic liver nodules were observed in male Fischer rats fed 12,100 ppm benzotriazole for 78 weeks. However, historic laboratory controls incidences varied from 0 to 11% so the treatment-related effects could not be

determined. Brain tumors occurred in three males and one female rat. Incidence of endometrial stromal polyps was increased significantly in female rats fed 6700 ppm for 78 weeks (22%), but not in female rats fed 12,100 ppm (16%). Significant increase in alveolar/bronchiolar carcinomas (18%) was observed female B6C3F1 fed 11,700 ppm benzotriazole for 104 weeks. Comparatively, a.similar increase was not observed in female mice fed 23,500 ppm benzotriazole for the same period of time (6% increase). Historical laboratory control incidences varied from 0 to 7%. Genotoxicity studies indicate that the compound was not mutagenic to S. typhimurium strains TA97, TA98, or TA100 in the presence or absence of S9, or Chinese hamster ovary cells. Benzotriazole was also not mutagenic to S. typhimurium strain TA1535 in the absence of S9, but was mutagenic in the presence of S9.Conflicting results were obtained for effects in S. typhimurium strains TA1537 and TA1538 and E. coli WP2 uvrA. It did not produce DNA damage in E. coli PQ37. In Chinese hamster ovary cells, benzotriazole induced chromosomal aberrations in the presence of S9 and sister chromatid exchange in the absence of S9. Benzotriazole was not genotoxic in the mouse micronucleus assay at 800 mg/kg. Benzotriazole was identified as a non-sensitizer in the guinea pig maximization test. Benzotriazole was identified as irritating to rabbit eyes and minimally irritating to rabbit and guinea pig skin

For phenolic benzotriazoles

Overall, oral exposure (either through gavage or in feed) of the tested chemicals to rats led to liver effects. Increased absolute and/or relative liver weights were observed in several studies. Body weight and body weight gain changes were observed after administration of several test substances. Histopathological changes (e.g., foci, hypertrophy, and cytoplasmic vacuolization) and altered liver enzyme content and activities were also noted after treatment with different phenolic benzotriazoles. Haematological effects (e.g., altered white and red blood cell counts, altered albumin levels, and packed cell volume) were observed. For those studies that calculated no observed adverse effect levels (NOAELs), the values ranged from <0.5 to ~5685 mg/kg/day

Reproductive and teratology effects: The chemicals tested produced a variety of effects. Some chemicals were shown to affect reproductive organ weights, but no direct studies in reproduction and development were located.

Genotoxicity None of the tested compounds were identified as mutagenic in vitro in the absence or presence of a metabolic system (S9) or in vivo

Chemical Information Review Document for Phenolic Benzotriazoles: Supporting Nomination for Toxicological Evaluation by the National Toxicology Program October 2011

http://ntp.niehs.nih.gov/ntp/noms/support_docs/phenolicbenzotriazoles_cird_oct2011_508.pdf

For alkenyl succinic anhydrides (ASAs)

ASAs have low octanol/water partition coefficients and are sparingly water soluble. These characteristics indicate that ASAs are slightly lipophilic, and thus, capable of passive diffusion across biological membranes. It would be predicted that upon oral exposure these chemical substances would be absorbed by the gastrointestinal tract. However, the structural and physical properties such as comparatively high molecular weight, the presence of long-chain tetrapropenyl moieties and sparingly water solubility, is expected to impede the rate and extent of absorption of alkenyl succinic anhydride from dermal surfaces. In addition to the general considerations discussed above, the alkenyl succinic anhydrides have relatively high boiling points, low vapour pressure, and are viscous liquids. As a result, these substances have a low propensity to form vapors or aerosols, and thus, unintentional exposure via inhalation is uncommon.

Acute toxicity: Acute oral LD50 for rats appear to be greater than 2000 mg/kg (the LD50 for C16-18 ASA is greater than 5000 mg/kg) confirming a low order of oral toxicity.

Acute dermal LD50 in rabbits generally exceed 5000 mg/kg confirming a low order of dermal toxicity. Similarly LCLo's for inhalation toxicity are high (1200 mg/m3, 4 hour exposure, dodecylsuccinic anhydride) indicating a low order of inhalation toxicity.

Sensitisation:

Skin and eye irritation tests, as well as determination of the possibility of skin sensitisation has been assessed in the lower and higher ASAs. The ASAs are potential skin sensitisers, and exposure to neat materials can irritate the skin and eyes. A category member, 2-dodecenyl-1-yl succinic anhydride (nDDSA), was positive (sensitising) in three standard sensitisation protocols in guinea pigs, the guinea pig maximization test, adjuvant and patch test and Buehler test. All members of the C8 -C12 Alkenyl Succinic Anydrides, including octenyl succinic anhydride, are considered dermal sensitisers **Repeat dose toxicity:**

DODECENYLSUCCINIC ACID

A category member, 2-Dodecenyl-1-yl succinic anhydride (nDDSA), was positive (sensitising) in three standard sensitisation protocols in guinea pigs, the guinea pig maximization test, adjuvant and patch test and Buehler test. All members of the C8 -C12 Alkenyl Succinic Anydrides, including octenyl succinic anhydride, are considered dermal sensitisers

Genotoxicity: In limited testing ASAs do not appear to be mutagenic.

Octenyl succinic anhydride (OSA) has been tested in a guideline bacterial reverse mutation assay (both plate incorporation method and preincubation method) and found to be negative (not mutagenic). Other members of the C8-12 Alkenyl Succinic Anhydride category (tetrapropenyl succinic anhydride, n-dodecenyl succinic anhydride, and tripropenyl succinic anhydride) have also been found to be nonmutagenic in the Ames assay. Tripropenyl succinic anhydride was tested in a guideline chromosomal aberrations assay and in a mammalian mutation assay (mouse lymphoma assay), and found to be negative. In the review by the World Health Organization of Cyclic Acid Anhydrides, genotoxicity tests for a variety of category members were negative for genotoxicity. These data indicate that the alkenyl succinic anhydrides are not genotoxic.

Toxicity to Reproduction:

No reproductive effects were observed in parental reproductive organs or performance after exposure to tripropenyl succinic anhydride, a member of the C8 -C12 alkenyl succinic anhydride category. The general NOAEL was 50 mg/kg bw/d for body weight effects; the NOAEL for reproductive effects could be higher. No adverse effects were observed in offspring at the highest dose tested in an OECD 421 guideline study under GLP. The WHO reviewed the human health risks of cyclic acid anhydrides, and, while data are limited, did not find a weight of evidence which suggests reproductive toxicity risk. The human health risks which were identified pertained to the immediate reactivity of the anhydride group, which manifests as irritation and sensitisation. There is no data which suggests that additional testing for reproductive toxicity is indicated. It is proposed that, if any additional testing is needed, it be conducted on the cleavage product of the anhydride, as the substance is hydrolytically labile

NAPHTHENIC DISTILLA LIGHT, HYDROTREAT (SEVE	 The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing; Distillate base oils receiving the same degree or extent of processing will have similar toxicities; The potential toxicity of residual base oils is independent of the degree of processing the oil receives. The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined oils by removing or transforming of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating base oil a mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/continos of processing. Toxicity testing has to is carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both cha			
NS-2222-G & N-ALKYLAT BENZOTRIAZC	ED Contact allergies quickly manifest thems pathogenesis of contact eczema involve allergic skin reactions, e.g. contact urtica allergen is not simply determined by its contact with it are equally important. A v allergen than one with stronger sensitisi	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.		
NS-2222-G & NAPHTHE DISTILLATE, LIG HYDROTREATED (SEVE	 In animal studies, the acute, oral, semile body weight. The semilethal concentration to "moderately irritating" when tested for repeated exposure vary by species; in a of granulomas. In animals, these substates 	For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is >2g/kg body weight. The semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "moderately irritating" when tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure vary by species; in animals, effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been found to cause reproductive toxicity or significant increases in birth defects. They are also not considered to cause cancer, mutations or chromosome aberrations.		
N-ALKYLAT BENZOTRIAZOL DODECENYLSUCCINIC A	E & No significant acute toxicological data ic	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×	
Skin Irritation/Corrosion	X	Reproductivity	×	
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×	
Respiratory or Skin sensitisation	¥	STOT - Repeated Exposure	*	
sensitisation				

Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	*
Mutagenicity	×	Aspiration Hazard	×
	Le	gend: 🗙 – Data either not ava	ailable or does not fill the criteria for classification

g Data available to make classification

SECTION 12 Ecological information

Toxicity

NS-2222-G	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
1-decene homopolymer, hydrogenated	Endpoint	Test Duration (hr)	Species	Value	Source
	Not			Not	Not

	Endpoint	Test Duration (hr)	Species	Value	Source
C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	EC50(ECx)	72h	Algae or other aquatic plants	3mg/l	Not Available
	LC50	96h	Fish	>74mg/l	Not Available
+ nyuroxynyuroonniuniute	EC50	48h	Crustacea	>0.008mg/l	2
	EC50	72h	Algae or other aquatic plants	3mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	24h	Crustacea	4.2mg/l	Not Available
alkaryl amine	LC50	96h	Fish	5.1mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	870mg/l	2
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	EC50	48h	Crustacea	51mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
N-alkylated benzotriazole	EC50(ECx)	24h	Crustacea	1.4mg/l	Not Available
	LC50	96h	Fish	1.3mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Algae or other aquatic plants	93mg/l	2
dodecenylsuccinic acid	EC50	96h	Algae or other aquatic plants	93mg/l	2
	LC50	96h	Fish	>100mg/l	2
	EC50	48h	Crustacea	>100mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
naphthenic distillate, light, hydrotreated (severe)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
nyarotreateu (sevele)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
Legend:	4. US EPA, Eco		ECHA Registered Substances - Ecotoxicologic a 5. ECETOC Aquatic Hazard Assessment Da ntration Data 8. Vendor Data	-	-

Harmful to aquatic organisms, 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
1-decene homopolymer, hydrogenated	LOW	LOW
dodecenylsuccinic acid	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
1-decene homopolymer, hydrogenated	HIGH (LogKOW = 5.116)
dodecenylsuccinic acid	MEDIUM (LogKOW = 4.3711)

Ingredient	Mobility
1-decene homopolymer, hydrogenated	LOW (KOC = 1724)
dodecenylsuccinic acid	LOW (KOC = 7235)

SECTION 13 Disposal considerations

Waste treatment methods

	 Containers may still present a chemical hazard/ danger when empty. Detention patient former a formation if an article and the statement of the stateme
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to
	store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
Product / Packaging	DO NOT allow wash water from cleaning or process equipment to enter drains.
disposal	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

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Excepted Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

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-decene homopolymer, hydrogenated	Not Available
C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available
alkaryl amine	Not Available
N-alkylated benzotriazole	Not Available
dodecenylsuccinic acid	Not Available
naphthenic distillate, light, hydrotreated (severe)	Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
1-decene homopolymer, hydrogenated	Not Available

Version No: 1.1	Ve	rsion	No:	1.1
-----------------	----	-------	-----	-----

Product name	Ship Type
C7-9 branched alkyl-3,5-di- tert-butyl- 4-hydroxyhydrocinnamate	Not Available
alkaryl amine	Not Available
N-alkylated benzotriazole	Not Available
dodecenylsuccinic acid	Not Available
naphthenic distillate, light, hydrotreated (severe)	Not Available

SECTION 15 Regulatory information

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

1-decene homopolymer, hydrogenated is found on the following regulatory	lists
US DOE Temporary Emergency Exposure Limits (TEELs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate is found on	the following regulatory lists
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
alkaryl amine is found on the following regulatory lists	
International WHO List of Proposed Occupational Exposure Limit (OEL)	US OSHA Permissible Exposure Limits (PELs) Table Z-1
Values for Manufactured Nanomaterials (MNMS)	US OSHA Permissible Exposure Limits (PELs) Table Z-3
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US NIOSH Recommended Exposure Limits (RELs)	
N-alkylated benzotriazole is found on the following regulatory lists	
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
dodecenylsuccinic acid is found on the following regulatory lists	
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
naphthenic distillate, light, hydrotreated (severe) is found on the following	regulatory lists

C	Chemical Footprint Project - Chemicals of High Concern List
h	nternational Agency for Research on Cancer (IARC) - Agents Classified by
t	he IARC Monographs - Not Classified as Carcinogenic
ι	JS - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)
US OSHA Permissible Exposure Limits (PELs) Table Z-1
US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

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

Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	No
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

None listed

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (1-decene homopolymer, hydrogenated; C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate; alkaryl amine; N-alkylated benzotriazole; dodecenylsuccinic acid; naphthenic distillate, light, hydrotreated (severe))
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate; N-alkylated benzotriazole)
Japan - ENCS	No (C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate; alkaryl amine; N-alkylated benzotriazole)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (N-alkylated benzotriazole; dodecenylsuccinic acid; naphthenic distillate, light, hydrotreated (severe))
Vietnam - NCI	Yes
Russia - FBEPH	No (C7-9 branched alkyl-3,5-di-tert-butyl-4-hydroxyhydrocinnamate)
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	06/02/2023
Initial Date	06/03/2023

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

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

end of SDS

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

Powered by AuthorITe, from Chemwatch.