

# Syn-Tech Ltd.

Version No: **1.2** Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

## **SECTION 1 Identification**

#### **Product Identifier**

Product name	NS-2717-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

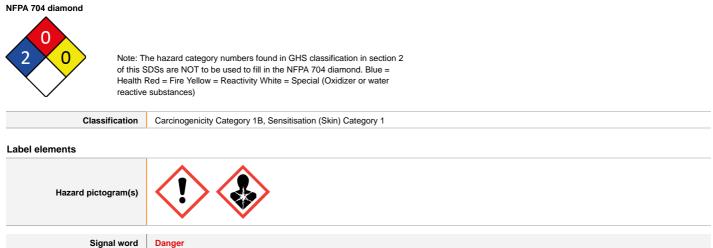
Registered company name	Syn-Tech Ltd.	Syn-Tech Ltd.
Address	1550 W Fullerton Ave, Unit F Illinois 60101 United States	1550 W. Fullerton Ave Illinois United States
Telephone	630-628-7290	630-628-7290
Fax	Not Available	Not Available
Website	www.syn-techlube.com	www.syn-techlube.com
Email	msds@syn-techlube.com	msds@syn-techlube.com

#### Emergency phone number

- <b>J</b>	
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



Issue Date: 08/17/2022

Print Date: 08/17/2022 S.GHS.USA.EN Page 2 of 12

NS-2717-G

H350	May cause cancer.
H317	May cause an allergic skin reaction.

## Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention	
P201	Obtain special instructions before use.
P280	Wear protective gloves and protective clothing.
P261	Avoid breathing dust/fumes.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing must not be allowed out of the workplace.

## Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
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

P405 Store locked up.

## Precautionary statement(s) Disposal

P501 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
15337-18-5	0.5	zinc diamyldithiocarbamate
64742-52-5	0.5	naphthenic distillate, heavy, hydrotreated (mild)
68411-46-1	0.5	octylated diphenylamines
25619-56-1	0.25	barium dinonyl naphthalenesulfonate
Not Available	10	Proprietary

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	► Generally not applicable.
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> <li>Generally not applicable.</li> </ul>
Inhalation	► Generally not applicable.
Ingestion	► Generally not applicable.

## 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.

Continued...

- Dry chemical powder.
   BCF (where regulations permit).
   Carbon dioxide.

Water spray or fog - Large fires only.

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Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
pecial protective equipment a	and precautions for fire-fighters
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) metal oxides other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive 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. <b>CARE</b> : 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

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by all means available, spillage from entering drains or water courses.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Contain or absorb spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Collect olid residues and seal in labelled drums for disposal.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Collect ore coverable product into labelled orums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul> Minor hazard. Collect recoverable product inth baselled orums for recycling. Collect recoverable product into advise and nature of hazard. Contrain spill with sand, earth or vermiculite. Collect recoverable product into advise and revers. Contrain spill with sand, earth or vermiculite. Collect recoverable product into labelled ontainers for recycling. Collect recoverable product into labelled containers for recycling. Collect recoverable product into labelled containers for recycling. Kontamination of drains or waterways. Collect recoverable product into labelled containers for recycling. Wash area and prevent runoff into drains or waterways. Kollect recoverable product into labelled containers for recycling. Wash area and prevent runoff into drains or waterways. If contamini

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

## SECTION 7 Handling and storage

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to contairers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	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	zinc diamyldithiocarbamate	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	zinc diamyldithiocarbamate	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	zinc diamyldithiocarbamate	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	zinc diamyldithiocarbamate	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	zinc diamyldithiocarbamate	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix [
US OSHA Permissible Exposure Limits (PELs) Table Z-1	naphthenic distillate, heavy, hydrotreated (mild)	Oil mist, mineral	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	octylated diphenylamines	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	octylated diphenylamines	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	octylated diphenylamines	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix I

## Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
naphthenic distillate, heavy, hydrotreated (mild)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
zinc diamyldithiocarbamate	Not Available		Not Available	
naphthenic distillate, heavy, hydrotreated (mild)	2,500 mg/m3		Not Available	
octylated diphenylamines	Not Available		Not Available	

Ingredient	Original IDLH	Revised IDLH
barium dinonyl naphthalenesulfonate	Not Available	Not Available
Occupational Exposure Bandir	ıg	
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
barium dinonyl naphthalenesulfonate	E	≤ 0.01 mg/m³
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.	

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. Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area. Vork should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system. Vert should be provided while the carcinogens are contained within. Open-vessel systems are prohibited. Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient vuorume to maintain correct operation of the local exhaust ventilation and berequired to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated ar
<ul> <li>No special equipment required due to the physical form of the product.</li> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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]</li> </ul>
See Hand protection below
<ul> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
See Other protection below
<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.</li> </ul>

- garments and hood. Overalls. P.V.C apron. Barrier cream.
  Skin cleansing cream.

  - Eye wash unit.

## **Respiratory protection**

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

## **SECTION 9** Physical and chemical properties

## Information on basic physical and chemical properties

Appearance	Moisture sensitive. Tan 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 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 of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs.
Ingestion	The material has <b>NOT</b> 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

		s or lesions, may produce systemic injury with harmful effects. Examine the skin	
Eye		by EC Directives), direct contact with the eye may produce transient discomfort	
Chronic	characterised by tearing or conjunctival redness (as with windburn). Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information. Repeated application of mildly hydrotreated oils (principally paraffinic), to mouse skin, induced skin tumours; no tumours were induced with severely hydrotreated oils.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
NS-2717-G	Not Available	Not Available	
	ΤΟΧΙCITY	IRRITATION	
zinc diamyldithiocarbamate	dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
	Oral (Rat) LD50; >2000 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
naphthenic distillate, heavy, hydrotreated (mild)	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
nyulotreated (inita)	Inhalation(Rat) LC50; 2.18 mg/l4h <sup>[2]</sup> Oral (Rat) LD50; >5000 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (not irritating)[1]	
	TOXICITY	IRRITATION	
	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): Non Irritant	
octylated diphenylamines	Oral (Rat) LD50; >2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin (rabbit): Non Irritant [Bay]	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	ΤΟΧΙCITY	IRRITATION	
barium dinonyl	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 250 mg/5d mild	
naphthalenesulfonate	Inhalation(Rat) LC50; >5.25 mg/L4h <sup>[2]</sup>		
	Oral (Rat) LD50; 3000 mg/kg <sup>[2]</sup>		
Legend:	1. Value obtained from Europe ECHA Registered Substances - specified data extracted from RTECS - Register of Toxic Effect of	cute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise f chemical Substances	
ZINC DIAMYLDITHIOCARBAMATE	for 50% process oil mixture:		
NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED (MILD)	• The adverse effects of these materials are associated with under The levels of the undesirable components are inversely related Distillate base oils receiving the same degree or extent of proce The potential toxicity of residual base oils is independent of the The reproductive and developmental toxicity of the distillate base Unrefined & mildly refined distillate base oils contain the highest molecules and have shown the highest potential cancer-causing are produced from unrefined and mildly refined oils by removing refined base oils, the highly and severely refined distillate base low mammalian toxicity. Testing of residual oils for mutation-caus belief that these materials lack biologically active components or Toxicity testing has consistently shown that lubricating base oils s mutagenic and carcinogenic potential correlates with its 3-7 rin extractables (e.g. IP346 assay), both characteristics that are dire For unrefined and mildly refined distillate base oils. Acute toxicity: Animal testing showed high semilethal doses of > skin contact, respectively. The same material was also reported Repeat dose toxicity: Animal testing showed that repeat dose tox Reproductive / developmental toxicity: No studies on developme may reduce the body weight of both the mother and the foetus, a Genetic toxicity: These oils have been found to cause mutations. Cancer-causing potential: The general conclusion that can be dr however, they have not been found to be associated with an incr Animal studies indicate that normal, branched and cyclic paraffin n-paraffins is inversely proportional to the carbon chain length, w be present in mineral oil, n-paraffins may be absorbed to a great The major classes of hydrocarbons are well absorbed into the gre hydrocarbons are ingested in association with fats in the diet. So	lated to the severity or extent of processing the oil has undergone, since: isirable components, and to the degree of processing; ssing will have similar toxicities; degree of processing the oil receives. e oils is inversely related to the degree of processing. levels of undesirable components, have the largest variation of hydrocarbon and mutation-causing activities. Highly and severely refined distillate base oils or transforming undesirable components. In comparison to unrefined and mildly ils have a smaller range of hydrocarbon molecules and have demonstrated very ing and cancer-causing potential has shown negative results, supporting the the components are largely non-bioavailable due to their molecular size. have low acute toxicities. Numerous tests have shown that a lubricating base oil g polycyclic aromatic compound (PAC) content, and the level of DMSO ctly related to the degree/conditions of processing. 5000 mg/kg body weight and >2 g/kg body weight for exposure by swallowing or o be moderately irritating to skin, while not being sensitizing. icity was mild to moderate to the skin. hat toxicity or reproduction are available. Animal testing shows that high doses nd increase the rate of soft tissue malformations. awn from animal testing is that these oils may potentially cause skin cancer; ease in tumours elsewhere in the body. s are absorbed from the gastrointestinal tract and that the absorption of ith little absorption above C30. With respect to the carbon chain lengths likely to	

The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

Page 8 of 12

NS-2717-G

	WARNING: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS.
OCTYLATED DIPHENYLAMINES	Heating of substituted diphenylamines may generate vapours which can irritate the eyes and airways. Drying of skin and mucous membranes leading to irritation may occur with prolonged or repeated contact. Overexposure may cause skin and airway irritation with dizziness and flu-like symptoms. All show a slight to very low order of toxicity following oral or topical administration. There is very low potential to cause gene mutations. Potential sensitiser producing contact allergies.
BARIUM DINONYL NAPHTHALENESULFONATE	To dram information for frakman sufficients (brainin salls or various alky) and any sufficience draft on a strain or related by the order of locality to an or related by the relation or domain order. The chemical excitibility were observed to accele to a soft the category (display individual intermeter and the category (display) automate periodement maddlet: The cate to active Exciting data indicates relatively for acute toxicity. Animal testing suggested darrhes and reduced front intake, which is consistent with the designed part intake desagers (display) automate periodement maddlet. The cate toxicity: Exciting data indicates relatively for acute toxicity. Animal testing suggested darrhes and reduced front intake. Cate toxicity: Exciting data indicates relatively for acute toxicity. Animal testing suggested darrhes and reduced front intake. Cate darks (display) automate methods having an inflaxing effect on the gastrointestilla trad. The desagers (display) automate the solar display interms responses (display). Reportations and the solar display interms responses (display) and the solar display and display. Reportations and the solar display and the solar is the solar interms interms individual (display). For display, and the solar display and the display interms interms individual (display) and the solar display and the solar display. Reportation is an antimate interms interms interms interms interms interms interms interms interms into a display. Reportation is an antimate interms in

Page 9 of 12

#### NS-2717-G

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, NS-2717-G & OCTYLATED involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the DIPHENYLAMINES 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. NAPHTHENIC DISTILLATE, HEAVY, HYDROTREATED No significant acute toxicological data identified in literature search. (MILD) & BARIUM DINONYL NAPHTHALENESULFONATE X Carcinogenicity ~ Acute Toxicity Skin Irritation/Corrosion × Reproductivity × STOT - Single Exposure × × Serious Eye Damage/Irritation Respiratory or Skin ¥ × STOT - Repeated Exposure sensitisation × × Mutagenicity Aspiration Hazard Legend: X – Data either not available or does not fill the criteria for classification

The following information refers to contact allergens as a group and may not be specific to this product.

✔ – Data available to make classification

## **SECTION 12 Ecological information**

#### Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
NS-2717-G	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
zinc diamyldithiocarbamate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
aphthenic distillate, heavy, hydrotreated (mild)	NOEC(ECx)	504h	Crustacea	>1mg/l	1
nyaronoucu (nina)	EC50	48h	Crustacea	>1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	24h	Crustacea	4.2mg/l	Not Available
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
octylated diphenylamines	EC50	48h	Crustacea	51mg/l	2
	LC50	96h	Fish	5.1mg/l	Not Available
	EC50	96h	Algae or other aquatic plants	870mg/l	2
barium dinonyl naphthalenesulfonate	Endpoint	Test Duration (hr)	Species	Value	Source
	Not	Not Available	Not Available	Not Available	Not Available

- Bioconcentration Data 8. Vendor Data

## DO NOT discharge into sewer or waterways

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
octylated diphenylamines	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	
octylated diphenylamines	LOW (BCF = 5.5)	

#### Mobility in soil

Ingredient	Mobility
octylated diphenylamines	LOW (KOC = 28640000)

Page 10 of 12

NS-2717-G

## **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>

## **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO

## 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
zinc diamyldithiocarbamate	Not Available
naphthenic distillate, heavy, hydrotreated (mild)	Not Available
octylated diphenylamines	Not Available
barium dinonyl naphthalenesulfonate	Not Available

## Transport in bulk in accordance with the ICG Code

Product name	Ship Type
zinc diamyldithiocarbamate	Not Available
naphthenic distillate, heavy, hydrotreated (mild)	Not Available
octylated diphenylamines	Not Available
barium dinonyl naphthalenesulfonate	Not Available

## **SECTION 15 Regulatory information**

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

zinc diamyldithiocarbamate is found on the following regulatory lists		
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US EPCRA Section 313 Chemical List	
Monographs	US NIOSH Recommended Exposure Limits (RELs)	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US OSHA Permissible Exposure Limits (PELs) Table Z-1	
Monographs - Group 1: Carcinogenic to humans	US OSHA Permissible Exposure Limits (PELs) Table Z-3	
International WHO List of Proposed Occupational Exposure Limit (OEL) Values for	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	
Manufactured Nanomaterials (MNMS)	US TSCA Chemical Substance Inventory - Interim List of Active Substances	
US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5		
US CWA (Clean Water Act) - Priority Pollutants		
US CWA (Clean Water Act) - Toxic Pollutants		
US EPA Integrated Risk Information System (IRIS)		
naphthenic distillate, heavy, hydrotreated (mild) is found on the following regulatory I	ists	
Chemical Footprint Project - Chemicals of High Concern List	US DOE Temporary Emergency Exposure Limits (TEELs)	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens	
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US OSHA Permissible Exposure Limits (PELs) Table Z-1	
Monographs - Group 1: Carcinogenic to humans	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	

US - California Proposition 65 - Carcinogens

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

octylated diphenylamines 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

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

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US NIOSH Recommended Exposure Limits (RELs)

barium dinonyl naphthalenesulfonate is found on the following regulatory lists

US EPA Integrated Risk Information System (IRIS)

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	Yes
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)	
Aspiration Hazard	
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

WARNING: This product can expose you to chemicals including naphthenic distillate, heavy, hydrotreated (mild), which are known to the State of California to cause cancer. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (zinc diamyldithiocarbamate; naphthenic distillate, heavy, hydrotreated (mild); octylated diphenylamines; barium dinonyl naphthalenesulfonate)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (zinc diamyldithiocarbamate)	

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

US TSCA Chemical Substance Inventory - Interim List of Active Substances

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

US OSHA Permissible Exposure Limits (PELs) Table Z-3

## Version No: 1.2

Page 12 of 12

NS-2717-G

National Inventory	Status	
Vietnam - NCI	Yes	
Russia - FBEPH	No (zinc diamyldithiocarbamate)	
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	08/17/2022
Initial Date	08/18/2022
SDS Varsian Summary	

#### SDS Version Summary

Version	Date of Update	Sections Updated
0.2	08/16/2022	Ingredients

#### 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。 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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