

Chemwatch Hazard Alert Code: 2

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S.GHS.USA.EN

2037 PRO-LINE ENGINE FLUSH 500ml

Liqui Moly GmbH

Chemwatch: 17-52829

Version No: 2.1.1.1

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

SECTION 1 IDENTIFICATION

Product Identifier

Product name	2037 PRO-LINE ENGINE FLUSH 500ml
Synonyms	Not Available
Other means of identification	Not Available
Recommended use of the chemical and restrictions on use	
Relevant identified uses	Cleaner.

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

Registered company name	Liqui Moly GmbH
Address	Jerg-Wieland-Strasse 4 Ulm D-89081 Germany
Telephone	+49 731 1420 0
Fax	+49 731 1420 82
Website	Not Available
Email	Not Available
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Emergency phone number

Association / Organisation	INFOTRAC	
Emergency telephone numbers	+1800 535 5053 (US, Canada & Mexico)	
Other emergency telephone numbers	+1 352 323 3500 (International)	

NFPA 704 diamond

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability	1	
Toxicity	0	
Body Contact	2	
Reactivity	1	0 = Minimum
Chronic	2	1 = Low 2 = Moderate 3 = High 4 = Extreme

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	Flammable Liquid Category 4, Eye Irritation Category 2A, Skin Sensitizer Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Aspiration Hazard Category 1		
Label elements			
Hazard pictogram(s)			
SIGNAL WORD	DANGER		
Hazard statement(s)			
H227	Combustible liquid.		
H319	Causes serious eye irritation.		
H317	May cause an allergic skin reaction.		

H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing mist/vapours/spray.	

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P331	Do NOT induce vomiting.	
P363	Wash contaminated clothing before reuse.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1174522-09-8	>75	hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics
84605-20-9	2-<5	polyethylenepolyamines/succinic anhydride/isobutenyl deriv
69011-36-5	1-<2.5	tridecanol, branched, ethoxylated
722503-68-6	1-<2.5	methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs 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 or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol. 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

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- + Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

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

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

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

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	t and precautions for fire-fighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. 		
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. 		

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	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	9
Safe handling	 The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 100 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT allow clothing wet with material to stay in contact with skin Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). 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.

	Other information
	Conditions for safe storage, in
	Suitable container
	Storage incompatibility
-	

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

CCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

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Not Available
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EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
2037 PRO-LINE ENGINE FLUSH 500ml	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available		Not Available	
polyethylenepolyamines/succinic anhydride/isobutenyl deriv	Not Available		Not Available	
tridecanol, branched, ethoxylated	Not Available		Not Available	
methyl-C20-24- alkylbenzenesulfonic acid, branched, calcium	Not Available		Not Available	

Exposure controls

Appropriate engineering controls	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.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
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. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream.

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
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up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand

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

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
 Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case,

cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Yellow brown liquid with characteristic odour; not miscible with water.			
Physical state	Liquid	Relative density (Water = 1)	0.81	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	230	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	<7	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	63	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Combustible.	Oxidising properties	Not Available	
Upper Explosive Limit (%)	6.1	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	90.2	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Available	
Vapour density (Air = 1)	>1	VOC g/L	Not Available	

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Reactivity	
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. 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	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual.

Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material The material may accentuate any pre-existing dermatitis condition 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	This ma	This material can cause eye irritation and damage in some persons.		
Chronic	Prolong Substan	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation.		
	TOY			
2037 PRO-LINE ENGINE FLUSH 500ml	TOXI Not A	vailable	IRRITATION Not Available	
hydrocarbons, C10-13,	τοχι	СІТҮ	IRRITATION	
n-alkanes, isoalkanes, cyclics, <2% aromatics	Not A	vailable	Not Available	
	тохі	СІТҮ	IRRITATION	
polyethylenepolyamines/succinic	derm	al (rat) LD50: >2000 mg/kg ^[2]	Not Available	
anhydride/isobutenyl deriv	Oral (rat) LD50: >5000 mg/kg ^[2]		
	тохі	CITY	IRRITATION	
tridecanol, branched,				
ethoxylated	Oral (rat) LD50: 1080 mg/kg ^[2]	Eye (rabbit): irritant *	
			Skin (rabbit): non-irritating *	
methyl-C20-24-	тохі	CITY	IRRITATION	
alkylbenzenesulfonic acid, branched, calcium	Not A	vailable	Not Available	
HYDROCARBONS, C10-13, N-ALI ISOALKANES, CYCLIC AROI	,	n-paraffins is inversely proportional to the carbon chai be present in mineral oil, n-paraffins may be absorbed The major classes of hydrocarbons are well absorbed hydrocarbons are ingested in association with fats in t Animal testing showed exposure to high concentration seizures and spasms. Cerebellar damage was found of	into the gastrointestinal tract in various species. In many cases, the hydrophobic	
POLYETHYLENEPOLYAMINES/SUCCINIC ANHYDRIDE/ISOBUTENYL DERIV For succinimide dispersants: Animal testing shows that these are of low concern with respect to acute toxicity or mutations. They have not been shown in developmental toxicity. * HPV Challenge program Final Submission for Succinimide Dispersants December 2006				
TRIDECANOL, BRANCHED, ETHOXYLATED Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, determination of the cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with ethoxylates has ever been reported. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, m cancer. No adverse reproductive or developmental effects were observed. * [BASE Canada]		can occur through swallowing, inhalation, or contact with the skin or eyes. Studies of have to occur to produce any toxic response. No death due to poisoning with alcohol re is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or		
Cc ec: inv Fo METHYL-C20-24- Ac		eczema involves a cell-mediated (T lymphocytes) imn involve antibody-mediated immune reactions. For alkaryl sulfonate petroleum additives:	act eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact hune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, ute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consister	

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: 🗙 – Data eithe	er not available or does not fill the criteria for classification

Legend: X – Data either not available or does not fill the criteria for class V – Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
2037 PRO-LINE ENGINE FLUSH 500ml	Not Available	Not Available	Not Available	Not Available	Not Available
hydrocarbons, C10-13,	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Available	Not Available	Not Available	Not Available	Not Available
- h - th down - h - min - (ini-	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
polyethylenepolyamines/succinic anhydride/isobutenyl deriv	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
tridecanol, branched,	LC50	96	Fish	2.5mg/L	2
ethoxylated	EC50	48	Crustacea	1.5mg/L	2
	EC50	72	Algae or other aquatic plants	2.3mg/L	2
methyl-C20-24- alkylbenzenesulfonic acid, branched, calcium	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available

DO NOT discharge into sewer or waterways.

Persistence and degradability

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

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

-	No Data available for all ingredients
Ingredient	Mobility
· · · · ·	

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant NO Not Applicable	
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Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

HYDROCARBONS, C10-13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS(1174522-09-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS Not Applicable

POLYETHYLENEPOLYAMINES/SUCCINIC ANHYDRIDE/ISOBUTENYL DERIV(84605-20-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

TRIDECANOL, BRANCHED, ETHOXYLATED(69011-36-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations	US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide
International Maritime Dangerous Goods Requirements (IMDG Code)	US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID)
United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	Number
(Chinese)	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	US Toxic Substances Control Act (TSCA) - Premanufacture Notice (PMN) Chemicals
(English)	US TSCA Chemical Substance Inventory - Interim List of Active Substances
United Nations Recommendations on the Transport of Dangerous Goods Model Regulations	US TSCA Section 5(a)(2) - Significant New Use Rules (SNURs)
(Spanish)	
US Department of Transportation (DOT), Hazardous Material Table	

US TSCA Chemical Substance Inventory - Interim List of Active Substances

METHYL-C20-24-ALKYLBENZENESULFONIC ACID, BRANCHED, CALCIUM(722503-68-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
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	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	Yes
Germ cell mutagenicity	No
Simple Asphyxiant	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4) None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory Status

National Inventory	Status
Australia - AICS	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Canada - DSL	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Canada - NDSL	No (tridecanol, branched, ethoxylated; polyethylenepolyamines/succinic anhydride/isobutenyl deriv; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
China - IECSC	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>

Europe - EINEC / ELINCS / NLP	No (polyethylenepolyamines/succinic anhydride/isobutenyl deriv; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Japan - ENCS	No (tridecanol, branched, ethoxylated; polyethylenepolyamines/succinic anhydride/isobutenyl deriv; methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Korea - KECI	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
New Zealand - NZIoC	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Philippines - PICCS	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
USA - TSCA	No (methyl-C20-24-alkylbenzenesulfonic acid, branched, calcium; hydrocarbons, C10-13, n-alkanes, isoalkanes, cyclics, <2% aromatics)>
Legend:	Yes = All ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	01/03/2019
Initial Date	01/03/2019

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 OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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