

RLA Polymers Pty Ltd

Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Issue Date: **12/06/2019** Print Date: **18/07/2019** S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

| Product Identifier | | |
|-----------------------------------|---|--|
| Product name | RLA WPM | |
| Synonyms | Not Available | |
| Other means of identification | Not Available | |
| Relevant identified uses of the | substance or mixture and uses advised against | |
| Relevant identified uses | Use according to manufacturer's directions. Water proofing membrane used for water proofing shower recesses, bathrooms and laundries. | |
| Details of the supplier of the sa | afety data sheet | |
| Registered company name | RLA Polymers Pty Ltd | |
| Address | 215 Colchester Road Kilsyth VIC 3137 Australia | |
| Telephone | +61 3 9728 1644 | |
| Fax | +61 3 9728 6009 | |
| Website | www.rlagroup.com.au | |
| Email | sales@rlagroup.com.au | |
| Emergency telephone number | | |
| Association / Organisation | Not Available | |
| Emergency telephone numbers | +61 3 9728 1644 (RLA Group Technical Manager) business hours | |
| Other emergency telephone numbers | 132766 (Security Monitoring Service) | |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

| Poisons Schedule | Not Applicable | | | |
|---------------------|------------------|--|--|--|
| Classification | n Not Applicable | | | |
| Label elements | | | | |
| Hazard pictogram(s) | Not Applicable | | | |
| SIGNAL WORD | NOT APPLICABLE | | | |

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | |
|---------------|-----------|--|--|
| 14807-96-6 | 10-20 | talc | |
| 119-47-1 | <2 | 2,2'-methylenebis(6-tert-butyl-4-methylphenol) | |
| Not Available | 30-60 | Ingredients determined not to be hazardous | |

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, 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. | | |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ► Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. | | | |
|-------------------------|--|--|--|--|
| Advice for firefighters | | | | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding 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 | Non combustible. Not considered a significant fire risk, however containers may burn. , silicon dioxide (SiO2) May emit corrosive fumes. | | | |
| HAZCHEM | Not Applicable | | | |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
|--------------|--|
| Major Spills | Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. |

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- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- ▶ Contain spill with sand, earth or vermiculite.
- ► Collect recoverable product into labelled containers for recycling.
- Neutralise/decontaminate residue (see Section 13 for specific agent).
- ▶ Collect solid residues and seal in labelled drums for disposal.
- ▶ Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- ▶ If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Safe handling

Precautions for safe handling

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Avoid contact with moisture.

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.

DO NOT allow clothing wet with material to stay in contact with skin

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

Polyethylene or polypropylene container.

Packing as recommended by manufacturer.

Material name

Check all containers are clearly labelled and free from leaks.

Storage incompatibility N

Other information

None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source

| Australia Exposure Standards | talc | Talc, (containing no asbe | stos fibres) | 2.5 mg/m3 | Not Available | Not Available | Not Available |
|--|---------------|---------------------------|---------------|---------------|---------------|---------------|---------------|
| EMERGENCY LIMITS | | | | | | | |
| Ingredient | Material name | | TEEL-1 | TEE | L-2 | TEEL-3 | |
| talc | Talc | | 6 mg/m3 | 66 г | mg/m3 | 400 mg/m3 | |
| Ingredient | Original IDLH | | | Revise | d IDLH | | |
| talc | 1000 mg/m3 | | Not Ava | Not Available | | | |
| 2,2'-methylenebis(6-tert-butyl- 4-methylphenol) | Not Available | | Not Available | | | | |
| Ingredients determined not to be hazardous | 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.

TWA

STEL

Peak

Notes

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.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed 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.

RIA WPM

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

Within each range the appropriate value depends on:

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

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

Personal protection







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 imigation 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]

Hands/feet protection

Skin protection

Eye and face protection

See Hand protection below

Wear chemical protective gloves, e.g. PVC.

Wear safety footwear or safety gumboots, e.g. Rubber

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. Gloves must only be wom on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
 - chemical resistance of glove material,
- glove thickness and

dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term

use.

Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
 Fair when breakthrough time < 20 min
- Fair when breakthrough time <20 mir
 Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be wom on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

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Other protection

- ► Overalls.
- ► P.V.C. apron.
- ► Barrier cream.
- ► Skin cleansing cream.
- ► Eye wash unit.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| formation on basic physical | and chemical properties | | |
|--|---|---|----------------|
| Appearance | Thick grey liquid; miscible with water. | | |
| Physical state | Liquid | Relative density (Water = 1) | 1.15 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 9-10 | Decomposition temperature | 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 Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | <5 |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|------------------------------------|--|
| 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

2,2'-methylenebis(6-tert-butyl-

4-methylphenol)

Legend:

| nformation on toxicological e | ffects | | |
|-------------------------------|--|---|--|
| Inhaled | There is some evidence to suggest that the material can cause respiratory imitation in some persons. The body's response to such imitation can cause further lung damage. | | |
| Ingestion | Ingestion may result in nausea, abdominal irritation, pain and vomiting | | |
| Skin Contact | There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. | | |
| Eye | There is some evidence to suggest that this m | naterial can cause eye irritation and damage in some persons. | |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. | | |
| 8 | TOXICITY | IRRITATION | |
| RLA WPM | Not Available | Not Available | |
| | TOXICITY | IRRITATION | |
| talc | Not Available | Skin (human): 0.3 mg/3d-1mild | |
| | TOXICITY | IRRITATION | |

dermal (rat) LD50: >10000 $\mathrm{mg/kg}^{[2]}$

Oral (rat) LD50: 4880 mg/kg^[2]

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Eye (rabbit): 100 mg/24h - mod

TALC

2 2'-METHYLENERIS(6-

4-METHYLPHENOL)

TERT-BUTYL-

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Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. No significant acute toxicological data identified in literature search.

The overuse of talc in nursing infants has resulted in respiratory damage causing fluid in the lungs and lung inflammation which may lead to death within hours of inhalation.

Long-term exposure can also cause a variety of respiratory symptoms.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

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.

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. for 2,2'-methylenebis(6-tert-butyl-4-methylphenol) (syn 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol)

Acute toxicity of this substance is low; oral LD50 values in animals is greater than 5,000 mg/kg. The substance is not irritating to skin and moderately irritating to eyes. There is no skin sensitisation in humans.

Repeat dose toxicity: In repeated dose toxicity studies, including a rat 28-day repeated dose toxicity test [Japan TG], a preliminary reproduction toxicity screening test [OECD TG 421] and a rat 18 month chronic toxicity test, effects on sperm in the cauda epididymis and histopathological changes in the testis, such as degeneration of step 19 spermatids and vacuolation of Sertoli cells, were observed in the 42.3 mg/kg and higher dose groups. Based on the above results, the NOAEL for repeated dose toxicity is considered to be 12.5 mg/kg/day.

Reproductive and developmental toxicity: In a reproductive/developmental toxicity study [OECD TG 421], the effects on reproductive parameters, such as decrease in number of corpora lutea, implantation scars and pups born, were observed in the 200 mg/kg/day and higher dose groups but not 50 mg/kg/day. Therefore, NOAEL for female reproductive toxicity is considered to be 50 mg/kg/day. However, NOAEL for male reproductive toxicity is 12.5 mg/kg/day because of the testicular toxicity as described above.

As for the developmental toxicity, low body weight gain of offspring and increased number of stillbirths were observed at 800 but not 200 mg/kg/day. The teratogenic effects were not observed in a study with rats up to 375 mg/kg/day. Based on these findings, the NOAEL for developmental toxicity is considered to be 200 mg/kg/day.

Genotoxicity: Three bacterial reverse mutation tests and mammalian chromosomal tests with and without metabolic activation show negative results [OECD TG 471, 472, 473]. No tumors were observed in a 18-month chronic feeding study with rats up to 1,000 ppm, however this study is not qualified to be regarded as a carcinogenicity study. Therefore, no conclusion could be reached on the carcinogenicity.

Data show that acute toxicity following oral and topical use of hindered phenols is low. They are not proven to cause mutations. However, long term use may affect the liver, thyroid, kidney and lymph nodes. Liver tumours have been reported.

Liver changes, changes in blood cell count, pigmented/ nucleated red blood cells, changes in testicular weight recorded.

| Acute Toxicity | Carcinogenicity | |
|-----------------------------------|--------------------------|---|
| Skin Irritation/Corrosion | Reproductivity | |
| erious Eye Damage/Irritation | STOT - Single Exposure | ◊ |
| Respiratory or Skin sensitisation | STOT - Repeated Exposure | ∅ |
| Mutagenicity 🛇 | Aspiration Hazard | 0 |

Legend:

X - Data available but does not fill the criteria for classification

Data available to make classification

Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

| xicity | | | | | |
|--|------------------|--------------------|---------------|------------------|------------------|
| RLA WPM No | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | Not Available | Not Available | Not Available | Not Available | Not Available |
| talc Not Available | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | | Not Available | Not Available | Not Available | Not Available |
| 2,2'-methylenebis(6-tert-butyl- 4-methylphenol) | ENDPOINT | TEST DURATION (HR) | SPECIES | VALUE | SOURCE |
| | LC50 | 96 | Fish | >1.00mg/L | 6 |
| | EC50 | 48 | Crustacea | >4.8mg/L | 2 |
| | NOEC | 48 | Crustacea | 0.74mg/L | 2 |

Legend:

Extracted from 1, IUCLID Toxicity Data 2, Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3, EPIWIN Suite V3.12 (OSAR) - Aquatic Toxicity Data (Estimated) 4, US EPA, Ecotox database - Aquatic Toxicity Data 5, ECETOC Aquatic Hazard Assessment Data 6, NITE (Japan) - Bioconcentration Data 7, METI (Japan) - Bioconcentration Data 8, Vendor Data

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| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--|-------------------------|------------------|
| 2,2'-methylenebis(6-tert-butyl- 4-methylphenol) | HIGH | HIGH |
| Bioaccumulative potential | | |
| Ingredient | Bioaccumulation | |
| 2,2'-methylenebis(6-tert-butyl- 4-methylphenol) | MEDIUM (BCF = 840) | |
| Mobility in soil | | |
| Ingredient | Mobility | |
| 2,2'-methylenebis(6-tert-butyl- 4-methylphenol) | LOW (KOC = 4297000) | |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- ► 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.

Product / Packaging disposal

- ► Recycle wherever possible. F Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| HAZCHEM | Not Applicable |

Land transport (ADG): 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

TALC(14807-96-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

2,2'-METHYLENEBIS(6-TERT-BUTYL-4-METHYLPHENOL)(119-47-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory Status

| National Inventory | Status |
|-------------------------------|---|
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (talc; 2,2'-methylenebis(6-tert-butyl-4-methylphenol)) |
| China - IECSC | Υ |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | Υ |
| Korea - KECI | Υ |
| New Zealand - NZIoC | Υ |
| Philippines - PICCS | Υ |
| USA - TSCA | Y |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

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SECTION 16 OTHER INFORMATION

| Revision Date | 12/06/2018 | Initial Date | 12/06/2018 |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources 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 TLV: Threshold Limit Value

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

end of SDS