SAFETY DATA SHEET



Revision date: 21-Apr-2020

Revision Number 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier

Product Code(s)

Product Name PEPSET 1620

Other means of identification

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHENOL)

000000016025

UN number 2922

Recommended use of the chemical and restrictions on use

Recommended use Foundry sand binder.

Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier

Ixom Operations Pty Ltd (Incorporated in Australia) NZBN: 9429041465226 Address: 166 Totara Street

Mt Maunganui South New Zealand

Telephone Number: +64 9 368 2700

Facimile: +64 9 368 2710

For further information, please contact

Contact Point Product Safety Department

Emergency telephone number

Emergency Telephone 0 800 734 607 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

GHS Classification

SIGNAL WORD

Danger

Subclass 9.2 Category A - Substances that are very ecotoxic in the soil environment.

Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Additives, Process Chemicals and Raw Materials (Corrosive, Combustible, Toxic [6.1 + 6.7]) Group Standard 2017 Approval Number: HSR002507

Category 1 (HSNO - 6.1E) Aspiration hazard Category 4 (HSNO - 6.1D) Acute toxicity - Oral Acute toxicity - Dermal Category 4 (HSNO - 6.1D) Acute toxicity - Inhalation (Vapors) Category 3 (HSNO - 6.1C) Category 1 Sub-category B (HSNO -Skin corrosion/irritation 8.2B) Serious eye damage/eye irritation Category 1 (HSNO - 8.3A) Skin sensitization Category 1 (HSNO - 6.5B) Category 1B (HSNO - 6.6A) Germ cell mutagenicity Carcinogenicity Category 1B (HSNO - 6.7A) Category 2 (HSNO - 6.8B) Reproductive toxicity Specific target organ toxicity (repeated exposure) Category 1 (HSNO - H372) Acute aquatic toxicity Category 3 (HSNO - 9.1C) Chronic aquatic toxicity Category 3 (HSNO - 9.1C)

Label elements



Hazard statements

- H227 Combustible liquid
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H331 Toxic if inhaled
- H340 May cause genetic defects
- H350 May cause cancer
- H361 Suspected of damaging fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H412 Harmful to aquatic life with long lasting effects
- H421 Very toxic to the soil environment
- H433 Harmful to terrestrial vertebrates

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Avoid release to the environment

Precautionary Statements - Response

Specific treatment (see First aid on this SDS)

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see First aid on this SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Collect spillage

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a labelmust provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance withthe Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable Not applicable.

Mixture .

| Chemical name | CAS No. | Weight-% |
|--|------------|----------|
| Phenol, polymer with formaldehyde | 9003-35-4 | 50-<70 |
| Solvent naphtha (petroleum)heavy arom. | 64742-94-5 | 10-<20 |
| Dimethyl glutarate | 1119-40-0 | 10-<20 |
| Phenol | 108-95-2 | 1-<10 |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | 1-<10 |
| Dimethyl succinate | 106-65-0 | 1-<10 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1-<10 |
| Dimethyl adipate | 627-93-0 | 1-<10 |
| Naphthalene | 91-20-3 | 1-<10 |
| Formaldehyde | 50-00-0 | 0.1-<1 |
| Diethylbenzene | 25340-17-4 | 0.1-<1 |
| Non hazardous component(s) | - | to 100 |

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Emergency telephone number Poisons Information Center, New Zealand: 0800 764 766

Poisons Information Center, Australia: 13 11 26

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Aspiration into lungs can produce severe lung damage. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin

reaction.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent

aspiration.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or

wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by

the presence of additional toxic substances.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Do not use straight streams. Do not scatter spilled material with high pressure water

streams.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May

cause sensitization by skin contact.

Hazardous combustion products Carbon oxides. Hydrocarbons.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

Hazchem code 2X

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Pick up and

transfer to properly labelled containers. Use clean non-sparking tools to collect absorbed

material.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Protect from moisture. Store away from incompatible materials

(refer to SDS).

Incompatible materials Acids. Bases. Oxidizing agents. Metals. Isocyanates.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

. No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

| Chemical name | New Zealand | ACGIH |
|--------------------|---|---------------------|
| Phenol 108-95-2 | 120 mg/g creatinine urine end of shift Phenol | 250 mg/g creatinine |

Naphthalene: WES-TWA 10 ppm, 52 mg/m³; WES-STEL 15 ppm, 79 mg/m³

Phenol: WES-TWA 1 ppm, 4 mg/m³, skin

Trimethyl benzene: WES-TWA 25 ppm; 123 mg/m³

Formaldehyde: Ceiling 1 ppm (1.2 mg/m³), 6.7Å Known or presumed human carcinogen, Sen

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - STEL (Workplace Exposure Standard - Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight-hour, time-weighted average exposures should be determined.

WES - Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded during any part of the working day.

`Sen' Notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

`Skin' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Engineering controls

Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



Eye/face protection Face protection shield. If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear an organic

vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS

1715 and AS/NZS 1716.

Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available.

Color Amber

OdorNo information available.Odor thresholdNo information available.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available None known pН No data available None known Melting point / freezing point Boiling point / boiling range 181°C None known 75°C Flash point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive 8.5% (V)

limits

Lower flammability or explosive 1% (V)

limits

Vapor pressure <2.9 hPa @20°C None known Vapor density >1 (air=1) None known Relative density 1.102 None known Water solubility slightly soluble None known Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** 180 mPa.s @25°C None known

Other information

10. STABILITY AND REACTIVITY

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

Incompatible materials

Incompatible materials Acids. Bases. Oxidizing agents. Metals. Isocyanates.

Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product InformationNo adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Aspiration into lungs can produce severe lung damage.

May cause pulmonary edema. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Causes burns. May cause

sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. May be absorbed through the skin in harmful amounts.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the

mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Potential for aspiration

if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes.

Hives. Difficulty in breathing. Dizziness.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,115 mg/kg ATEmix (dermal) 1,500 mg/kg ATEmix (inhalation-vapor) 8.66 mg/l (4 hr)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|---|---|---------------------------------|
| Phenol, polymer with formaldehyde | > 5 g/kg (Rat) | > 2 g/kg (Rat) | - |
| Solvent naphtha (petroleum)heavy arom. | > 5000 mg/kg (Rat) | > 2 mL/kg(Rabbit) | > 590 mg/m³ (Rat) 4 h |
| Dimethyl glutarate | > 5000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | > 5.6 mg/L (Rat)4 h |
| Phenol | = 340 mg/kg (Rat) = 317 mg/kg (Rat) | = 630 mg/kg(Rabbit) | = 316 mg/m³(Rat)4 h |
| Solvent naphtha (petroleum), light arom. | = 8400 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | = 3400 ppm (Rat) 4 h |
| Dimethyl succinate | > 5 g/kg (Rat) | > 5 g/kg (Rabbit) | - |
| 1,2,4-Trimethylbenzene | = 3280 mg/kg (Rat) | > 3160 mg/kg (Rabbit) | = 18 g/m ³ (Rat) 4 h |
| Dimethyl adipate | > 5000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | - |
| Naphthalene | = 490 mg/kg (Rat) = 1110 mg/kg (Rat) | = 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit) | > 340 mg/m³ (Rat)1 h |
| Formaldehyde | = 100 mg/kg (Rat) | = 270 mg/kg (Rabbit) | = 0.578 mg/L (Rat) 4 h |
| Diethylbenzene | = 2050 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | - |

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Classification based on data available for ingredients. Causes burns. Risk of serious Serious eye damage/eye irritation

damage to eyes.

Respiratory or skin sensitization May cause sensitization by skin contact

Germ cell mutagenicity Classification based on data available for ingredients. Contains a known or suspected

mutagen.

Carcinogenicity Classification based on data available for ingredients. The table below indicates ingredients

above the cut-off threshold considered as relevant which are listed as carcinogenic.

Chemical name New Zealand IARC

| Phenol - 108-95-2 | | Group 3 |
|------------------------|----------------------|----------|
| Naphthalene - 91-20-3 | Suspected carcinogen | Group 2B |
| Formaldehyde - 50-00-0 | Confirmed carcinogen | Group 1 |

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity Classification based on data available for ingredients. Contains a known or suspected

reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposureCauses damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|--|---|---|---|
| Solvent naphtha (petroleum)heavy arom. | EC50: =2.5mg/L (72h, Skeletonema costatum) | LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h, Pimephales promelas) | EC50: =0.95mg/L (48h, Daphnia magna) |
| Dimethyl glutarate | - | LC50: 19.6 - 26.2mg/L (96h, Pimephales promelas) | EC50: 122.1 - 163.5mg/L (48h, Daphnia magna) |
| Phenol | EC50: =46.42mg/L (96h, Pseudokirchneriella subcapitata) EC50: 0.0188 - 0.1044mg/L (96h, Pseudokirchneriella subcapitata) EC50: 187 - 279mg/L (72h, Desmodesmus subspicatus) | LC50: 11.9 - 50.5mg/L (96h, Pimephales promelas) LC50: 20.5 - 25.6mg/L (96h, Pimephales promelas) LC50: 32.mg/L (96h, Pimephales promelas) LC50: 5.449 - 6.789mg/L (96h, Oncorhynchus mykiss) LC50: 7.5 - 14mg/L (96h, Oncorhynchus mykiss) LC50: 7.5 - 14mg/L (96h, Oncorhynchus mykiss) LC50: 27.8mg/L (96h, Brachydanio rerio) LC50: =0.00175mg/L (96h, Cyprinus carpio) LC50: 33.9 - 43.3mg/L (96h, Oryzias latipes) LC50: 23.4 - 36.6mg/L (96h, Oryzias latipes) LC50: 5.0 - 12.0mg/L (96h, Oncorhynchus mykiss) LC50: =13.5mg/L (96h, Lepomis macrochirus) LC50: 11.9 - 25.3mg/L (96h, Lepomis macrochirus) LC50: 34.09 - 47.64mg/L (96h, Poecilia reticulata) LC50: =31mg/L (96h, Poecilia reticulata) | EC50: 4.24 - 10.7mg/L (48h, Daphnia magna) EC50: 10.2 - 15.5mg/L (48h, Daphnia magna) |
| Solvent naphtha (petroleum), light arom. | - | LC50: =9.22mg/L (96h, Oncorhynchus mykiss) | EC50: =6.14mg/L (48h, Daphnia magna) |

| Dimethyl succinate | - | LC50: 50 - 100mg/L (96h, | - |
|------------------------|----------------------------------|-----------------------------------|----------------------------------|
| , | | Brachydanio rerio) | |
| 1,2,4-Trimethylbenzene | - | LC50: 7.19 - 8.28mg/L (96h, | EC50: =6.14mg/L (48h, Daphnia |
| , , | | Pimephales promelas) | magna) |
| Naphthalene | EC50: =0.4mg/L (72h, Skeletonema | LC50: 5.74 - 6.44mg/L (96h, | LC50: =2.16mg/L (48h, Daphnia |
| · | costatum) | Pimephales promelas) LC50: | magna) EC50: =1.96mg/L (48h, |
| | | =1.6mg/L (96h, Oncorhynchus | Daphnia magna) EC50: 1.09 - |
| | | mykiss) LC50: 0.91 - 2.82mg/L | 3.4mg/L (48h, Daphnia magna) |
| | | (96h, Oncorhynchus mykiss) LC50: | |
| | | =1.99mg/L (96h, Pimephales | |
| | | promelas) LC50: =31.0265mg/L | |
| | | (96h, Lepomis macrochirus) | |
| Formaldehyde | - | LC50: 22.6 - 25.7mg/L (96h, | LC50: =2mg/L (48h, Daphnia |
| | | Pimephales promelas) LC50: | magna) EC50: 11.3 - 18mg/L (48h, |
| | | =1510µg/L (96h, Lepomis | Daphnia magna) |
| | | macrochirus) LC50: =41mg/L (96h, | |
| | | Brachydanio rerio) LC50: 0.032 - | |
| | | 0.226mL/L (96h, Oncorhynchus | |
| | | mykiss) LC50: 100 - 136mg/L (96h, | |
| | | Oncorhynchus mykiss) LC50: 23.2 - | |
| | | 29.7mg/L (96h, Pimephales | |
| | | promelas) | |

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation No information available.

Mobility

Mobility in soil No information available.

| Chemical name | Partition coefficient |
|--|-----------------------|
| Solvent naphtha (petroleum)heavy arom. | 2.9 - 6.1 |
| Phenol | 1.5 |
| Dimethyl succinate | 0.19 |
| 1,2,4-Trimethylbenzene | 3.63 |
| Naphthalene | 3.6 |
| Formaldehyde | 0.35 |

Other adverse effects

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous

Goods on Land.

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UN number 2922

Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHENOL)

Hazard class8Subsidiary hazard class6.1Packing groupIIHazchem code2X

IATA Classified as Dangerous Goods by the criteria of the International Air Transport Association

(IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN number 2922

UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHENOL)

Transport hazard class(es) 8
Subsidiary hazard class 6.1
Packing group II

IMDG Classified as Dangerous Goods by the criteria of the International Maritime Dangerous

Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number 2922

UN proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHENOL)

Transport hazard class(es) 8
Subsidiary hazard class 6.1
Packing group II
IMDG EMS Fire F-A
IMDG EMS Spill S-B

15. REGULATORY INFORMATION

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

New Zealand

National regulations See section 8 for national exposure control parameters

| · | |
|---|--|
| Chemical name | New Zealand HSNO Chemical Classification |
| Phenol, polymer with formaldehyde - 9003-35-4 | 9.1D (All),9.1D (F),9.1D (C),9.1D (A),9.2A |
| Dimethyl glutarate - 1119-40-0 | 6.4A,9.1D (All),9.1D (F),9.1D (A) |
| Phenol - 108-95-2 | 6.1B (All),6.1B (I),6.1C (D),6.1C (O),6.6A,6.8B,6.9A (All),6.9A |
| | (D),6.9A (O),8.2B,8.3A,9.1D (All),9.1D (A),9.1D (C),9.1D |
| | (F),9.2D,9.3B |
| | 6.1B (All),6.1B (I),6.1C (D),6.1C (O),6.6B,6.8B,6.9A (All),6.9A |
| | (D),6.9A (O),8.2B,8.3A,9.1D (All),9.1D (A),9.1D (C),9.1D |
| | (F),9.2D,9.3B |
| | 6.1B (All),6.1B (I),6.1C (O),6.1C (D),6.6A,6.8B,6.9A (All),6.9A |
| | (O),6.9A (D),8.2B,8.3A,9.1D (All),9.1D (A),9.1D (C),9.1D |
| | (F),9.2D,9.3B |
| Dimethyl succinate - 106-65-0 | 3.1D,6.4A,9.1D (All),9.1D (F) |
| 1,2,4-Trimethylbenzene - 95-63-6 | 3.1C,6.1D (All),6.1D (I),6.1E (O),6.3B,6.4A,6.9B (All),6.9B |
| | (I),9.1B (AII),9.1B (C),9.1B (F) |
| Dimethyl adipate - 627-93-0 | 6.1D (All),6.1D (O),9.3C |
| Naphthalene - 91-20-3 | 4.1.1B,6.1D (All),6.1D (D),6.1D (O),6.3B,6.4A,6.7B,6.9A |
| | (All),6.9A (O),6.9A (I),9.1B (F),9.1B (C),9.1A (All),9.1A (A),9.3B |
| Formaldehyde - 50-00-0 | 3.1C,6.1B (All),6.1B (I),6.1C (D),6.1C (O),6.5B,6.6B,6.7A,6.9B |
| | (All),6.9B (I),6.9B (O),8.2C,8.3A,9.1D (All),9.1D (C),9.1D |

| | (F),9.2A,9.3B |
|-----------------------------|--|
| | 3.1D,6.1B (All),6.1B (I),6.1C (D),6.1C (O),6.5B,6.6B,6.7A,6.9B |
| | (All),6.9B (I),6.9B (O),8.2C,8.3A,9.1D (All),9.1D (C),9.1D |
| | (F),9.2A,9.3B |
| | 6.1D (AII),6.1D (D),6.1D (I),6.1D |
| | (O),6.3A,6.4A,6.5B,6.6B,6.7A,6.9A (All),6.9A (O),6.9B (I),9.1D |
| | (AII),9.1D (C),9.1D (F),9.2B,9.3C |
| | 6.1E (AII),6.3A,6.4A,6.5B,6.6B,6.7A,6.9B (AII),9.2B |
| | 6.3A,6.4A,6.5B,9.2B |
| Diethylbenzene - 25340-17-4 | 3.1C,6.1E (All),6.1E (O),6.3B,6.4A,9.1A (All),9.1A (A),9.1A |
| · | (F),9.1B (C) |

International Inventories

NZIOC All the constituents of this material are listed on the New Zealand Inventory of Chemicals.

Contact supplier for inventory compliance status. **TSCA DSL/NDSL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. **ENCS** Contact supplier for inventory compliance status. **IECSC KECL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS**

Legend:

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION

Supplier Safety Data Sheet 01/2017

Prepared By

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and

SDS Services).

Issuing Date: 21-Apr-2020

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Change in Hazardous Chemical Classification

Change to Transport Information

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

C Carcinogen

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet