## **CCS Enduro Hi Build Matt**

## Chemiplas

Chemwatch: **5306-02** Version No: **5.1** 

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **10/03/2023**Print Date: **11/11/2024**S.GHS.AUS.EN

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### **Product Identifier**

| Product name                  | CCS Enduro Hi Build Matt  |  |
|-------------------------------|---------------------------|--|
| Chemical Name                 | ot Applicable             |  |
| Synonyms                      | ylic Resin                |  |
| Proper shipping name          | RESIN SOLUTION, flammable |  |
| Chemical formula              | Not Applicable            |  |
| Other means of identification | Not Available             |  |

## Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Coatings. Use according to manufacturer's directions. |
|--------------------------|---|
|--------------------------|---|

## Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Chemiplas   | Chemiplas   |
|-------------------------|---|---|
| Address                 | Level 1, 128 Jolimont Road East Melbourne VIC 3002<br>Australia | Level 1, 55 Parramatta Road Lidcombe NSW 2141 Australia |
| Telephone               | +61 3 9419 7300   | +61 2 9748 3676   |
| Fax                     | +61 3 9419 7676   | +61 2 9748 3698   |
| Website                 | www.chemiplas.com.au  | Not Available   |
| Email                   | Not Available   | Not Available   |

## Emergency telephone number

| Association / Organisation          | CHEMWATCH EMERGENCY RESPONSE (24/7) |  |
|-------------------------------------|-------------------------------------|--|
| Emergency telephone number(s)       | +61 1800 951 288                    |  |
| Other emergency telephone number(s) | +61 3 9573 3188                     |  |

Once connected and if the message is not in your preferred language then please dial 01

#### **SECTION 2 Hazards identification**

## Classification of the substance or mixture

| Poisons Schedule              | S6  |  |
|-------------------------------|---|--|
| Classification <sup>[1]</sup> | Flammable Liquids Category 3, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Acute Hazard Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |  |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 -<br>Annex VI  |  |

## Label elements

Hazard pictogram(s)







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| Signal word | Warning |
|-------------|---------|
|-------------|---------|

## Hazard statement(s)

| H226 | Flammable liquid and vapour.                     |  |
|------|--|--|
| H312 | Harmful in contact with skin.                    |  |
| H315 | Causes skin irritation.                          |  |
| H319 | Causes serious eye irritation.                   |  |
| H332 | Harmful if inhaled.                              |  |
| H336 | May cause drowsiness or dizziness.               |  |
| H402 | Harmful to aquatic life.                         |  |
| H411 | Toxic to aquatic life with long lasting effects. |  |

## Precautionary statement(s) Prevention

| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |  |
|------|--|--|
| P271 | Use only outdoors or in a well-ventilated area.  |  |
| P240 | Ground and bond container and receiving equipment.   |  |
| P241 | Jse explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.              |  |
| P242 | Use non-sparking tools.  |  |
| P243 | Take action to prevent static discharges.  |  |
| P261 | Avoid breathing mist/vapours/spray.  |  |
| P273 | Avoid release to the environment.  |  |
| P280 | P280 Wear protective gloves, protective clothing, eye protection and face protection.          |  |
| P264 | P264 Wash all exposed external body areas thoroughly after handling.                           |  |

## Precautionary statement(s) Response

| P370+P378      | In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.  |  |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |  |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |  |
| P391           | Collect spillage.  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.  |  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |  |

#### 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 to authorised hazardous or special waste collection point in accordance with any local regulation.

## **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

## **Mixtures**

| CAS No  | %[weight]  | Name   |
|---|--|--------|
| 64742-95-6.   | 30-60 <u>naphtha petroleum, light aromatic solvent</u> |        |
| 1330-20-7   | 30-55  | xylene |
| Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available |  |        |

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#### **SECTION 4 First aid measures**

#### Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>   |  |  |
|--------------|---|--|--|
| 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   | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>   |  |  |
| Ingestion    | <ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul> |  |  |

#### Indication of any immediate medical attention and special treatment needed

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. For petroleum distillates

- · In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.
- · Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function
- · Positive pressure ventilation may be necessary.
- · Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- · After the initial episode,individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- · Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- · Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from 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 or pCO2 > 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.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments

Methylhippu-ric acids in urine 1.5 gm/gm creatinine End of shift
2 mg/min Last 4 hrs of shift

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## **SECTION 5 Firefighting measures**

## **Extinguishing media**

▶ Foam.

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- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

## Special hazards arising from the substrate or mixture

| Eiro | Incom    | patibility |
|------|----------|------------|
| LIIE | IIICOIII | patibility |

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may

| Advice for firefighters |  |
|-------------------------|--|
| Fire Fighting           | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul> |
| Fire/Explosion Hazard   | <ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit clouds of acrid smoke</li> </ul>  |
| HAZCHEM                 | •3Y  |

## **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Wash area and prevent runoff into drains.

See section 8

## **Environmental precautions**

See section 12

| Methods and material for o | containment and cleaning up   |
|----------------------------|---|
| Minor Spills               | <ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> </ul>   |
| Major Spills               | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse /absorb vapour.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Use only spark-free shovels and explosion proof equipment.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> </ul> |

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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

Other information

#### Precautions for 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 10 000 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
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of overexposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid generation of static electricity.
- ▶ DO NOT use plastic buckets.
- Earth all lines and equipment.
- Use spark-free tools when handling.
- 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.
- 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.
- Store in original containers in approved flammable liquid storage area.
- Store away from incompatible materials in a cool, dry, well-ventilated area.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- ▶ No smoking, naked lights, heat or ignition sources.
- > Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access.
- · Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.
- Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.
- ▶ Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers dry chemical, foam or carbon dioxide) and flammable gas detectors.
- Keep adsorbents for leaks and spills readily available.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

In addition, for tank storages (where appropriate):

- Store in grounded, properly designed and approved vessels and away from incompatible materials.
- For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.
- Storage tanks should be above ground and diked to hold entire contents.

## Conditions for safe storage, including any incompatibilities

#### Packing as supplied by manufacturer.

- ▶ Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- ▶ For materials with a viscosity of at least 2680 cSt. (23 deg. C)
- For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
- Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging: (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
- ▶ Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
- In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

#### Storage incompatibility

Suitable container

Avoid reaction with oxidising agents

## **SECTION 8 Exposure controls / personal protection**

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#### Control parameters

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#### Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

| Source                          | Ingredient | Material name               | TWA                | STEL                | Peak          | Notes         |
|---------------------------------|------------|-----------------------------|--------------------|---------------------|---------------|---------------|
| Australia Exposure<br>Standards | xylene     | Xylene (o-, m-, p- isomers) | 80 ppm / 350 mg/m3 | 655 mg/m3 / 150 ppm | Not Available | Not Available |

| Ingredient                                | Original IDLH | Revised IDLH  |
|---|---------------|---------------|
| naphtha petroleum, light aromatic solvent | Not Available | Not Available |
| xylene                                    | 900 ppm       | Not Available |

#### **Exposure controls**

CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:  | Air Speed:                            |
|---|---------------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5<br>m/s<br>(50-100<br>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<br>(100-200<br>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<br>(200-500<br>f/min.)      |

#### Appropriate engineering controls

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 fan. 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.

- · Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance.
- · Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.
- · Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered.. The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)

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Individual protection measures, such as personal protective equipment











#### Eye and face protection

Safety glasses with side shields.

- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### Skin 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 worn 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

#### Hands/feet protection

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
- · 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 worn 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

- Overalls.PVC Apron.
- ▶ PVC protective suit may be required if exposure severe.
- Eyewash unit.
- ▶ Ensure there is ready access to a safety shower.
- ▶ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

## Other protection

#### •

## Recommended material(s) GLOVE SELECTION INDEX

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Glove selection is based on a modified presentation of the:

#### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

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| Material          | СРІ |
|-------------------|-----|
| PE/EVAL/PE        | A   |
| PVA               | A   |
| TEFLON            | A   |
| VITON             | A   |
| BUTYL             | С   |
| BUTYL/NEOPRENE    | С   |
| HYPALON           | С   |
| NAT+NEOPR+NITRILE | С   |
| NATURAL+NEOPRENE  | С   |
| NEOPRENE          | С   |
| NEOPRENE/NATURAL  | С   |
| NITRILE           | С   |
| NITRILE+PVC       | С   |
| PVC               | С   |
| PVDC/PE/PVDC      | С   |

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES                         | A-AUS / Class<br>1      | -                       | A-PAPR-AUS /<br>Class 1   |
| up to 50 x ES                         | Air-line*               | -                       | -                         |
| up to 100 x ES                        | -                       | A-3                     | -                         |
| 100+ x ES                             | -                       | Air-line**              | -                         |

- \* 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                                   | Clear, brownish flammable liquid with a slight hydrocarbon odour; does not mix with water. |   |                |
|--|--|---|----------------|
|  |  |   |                |
| Physical state                               | Liquid   | Relative density (Water = 1)                | Not Available  |
| Odour  | Not Available  | Partition coefficient n-<br>octanol / water | Not Available  |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)              | Not Available  |
| pH (as supplied)                             | Not Applicable   | Decomposition temperature (°C)              | Not Available  |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                             | 40-100         |
| Initial boiling point and boiling range (°C) | 138-175  | Molecular weight (g/mol)                    | Not Applicable |
| Flash point (°C)                             | 24   | Taste                                       | Not Available  |
| Evaporation rate                             | Not Available  | Explosive properties                        | Not Available  |
| Flammability                                 | Flammable.   | Oxidising properties                        | Not Available  |
| Upper Explosive Limit (%)                    | Not Available  | Surface Tension (dyn/cm or mN/m)            | Not Available  |
| Lower Explosive Limit (%)                    | Not Available  | Volatile Component (%vol)                   | Not Available  |
| Vapour pressure (kPa)                        | Not Available  | Gas group                                   | Not Available  |
| Solubility in water                          | Immiscible   | pH as a solution (1%)                       | Not Applicable |
| Vapour density (Air = 1)                     | Not Available  | VOC g/L                                     | Not Available  |
| Heat of Combustion (kJ/g)                    | Not Available  | Ignition Distance (cm)                      | Not Available  |
| Flame Height (cm)                            | Not Available  | Flame Duration (s)                          | Not Available  |

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| Enclosed Space Ignition<br>Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition<br>Deflagration Density<br>(g/m3) | Not Available |
|---|---------------|---|---------------|
|---|---------------|---|---------------|

## **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 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 |             |          |         |         |
|--------------------------------------|-------------|----------|---------|---------|
|                                      | Information | on toxio | اممنمما | affaata |

| illiorillation on toxicologic |  |
|-------------------------------|--|
| 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.  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.  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.  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.  Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.   |
| 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                  | Skin contact with the material may be harmful; systemic effects may result following absorption.  The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.  Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  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                           | There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.  The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.  |
| Chronic                       | Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.  There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.  Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.  Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis). |

| CCS Enduro Hi Build Matt                     | TOXICITY   | IRRITATION                              |
|--|--|---|
|  | Not Available                                      | Not Available                           |
| naphtha petroleum, light<br>aromatic solvent | TOXICITY   | IRRITATION                              |
|  | Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>   | Eye (Rodent - rabbit): 100uL/24H - Mild |
|  | Inhalation (Rat) LC50: >4.42 mg/L4h <sup>[1]</sup> |   |
|  | Oral (Rat) LD50: >4500 mg/kg <sup>[1]</sup>        |   |
|  |  |   |

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| TOXICITY   | IRRITATION  |
|--|---|
| Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup> | Eye (Human): 200ppm   |
| Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup> | Eye (Rodent - rabbit): 5mg/24H - Severe   |
| Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>     | Eye (Rodent - rabbit): 87mg - Mild  |
|  | Eye: adverse effect observed (irritating) <sup>[1]</sup>  |
|  | Skin (Rodent - rabbit): 100% - Moderate   |
|  | Skin (Rodent - rabbit): 500mg/24H - Moderate  |
|  | Skin (Rodent - rat): 60uL/8H - Mild   |
|  | Skin: adverse effect observed (irritating) <sup>[1]</sup>   |
|  | Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup> Inhalation (Rat) LC50: 5000 ppm4h <sup>[2]</sup> |

Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

#### NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT

Inhalation (rat) TCLo: 1320 ppm/6h/90D-I \* [Devoe]

Most Low Boiling Point Naphthas (LBPNs) have low actute toxicity to oral, dermal and inhalation routes of exposure, and mild to moderate skin and eye irritating effects. However, some heavier 'cracked' LBPNs (LKBPNs with greater olefinic content) have been found to be more irritating to the skin and eyes compared to non-cracked LBPNs.

LBPNs are not known to be sensitising to the skin.

Animal studies examined the effects of short-term and longer-term exposure to LBPNs through inhalation or oral routes. In male rats specifically, exposure to LBPNs resulted in kidney-related issues like increased kidney weight, kidney lesions, and hyaline droplet formation. However, the same effects were not seen in female rats, mice, or humans due to a mechanism of action involving a particular enzyme only found in male rats. Limited studies found that exposure through inhalation caused an increase in liver weight in both male and female rats. Dermal exposure to one specific LBPN (light cracked naphtha) resulted in skin irritation and changes at low doses in rats. Few studies were available regarding the chronic toxicity of LBPNs, but one study exposed mice and rats to unleaded gasoline (containing 2% benzene) and found ocular and kidney effects at concentrations of 200 mg/m3 and 6170 mg/m3, respectively.

Testing of LBPN genetic effects have shown mixed results when performed using in vitro studies. In vivo studies of LBPNs showed no negative outcomes. Some LBPNS have been shown to cause unusual chromosome formation. Testing of genotoxicity of unleaded gasoline (containing 2% benzene) found that unusual DNA synthesis was induced in mice via oral exposure. Similarly, unleaded gasoline with 2% benzene content resulted in in replicative DNA synthesis in rat kidney cells via oral and inhalation exposures. While the majority of in vivo genotoxicity results for LBPN substances are negative, the potential for genotoxicity of LBPNs as a group cannot be disregarded based on the mixed in vitro genotoxicity results. Limited evidence exists demonstrating the carcinogenicity of skin and blood following exposure to LBPNs. The published studies studfying the incidence of cancer due to LBPNs had several limitations, including a lack of exposure data and the inability to definitively exclude the exposure effects of gasoline combustion products from the effects of gasoline itself. Only unleaded gasoline has been examined for its carcinogenic potential in inhalation studies among LBPN substances. One such study foudn that inhalaiton of exposure of unleaded gasoline (2% benzene) resulted in promotion of liver tumours in female mice at an dosage of 6170 mg/m3 over 2 years, but did not initiate tumour formation. Both the European Commission and the International Agency for Research on Cancer (IARC) have classified LBPN substances as carcinogenic. All of these substances were classified by the European Commission (2008) as Category 2 carincogens (benzene content = 0.1% by weight). THe IARC has classified gasoline as a Group 2B carcinogen (possibly carcinogenic to humans) and "occupational exposures in petroleum refining" as Group 2A carcinogens (probably carcinogenic to humans). Induction of both benign and malignant tumours has been found following dermal exposure to mice to heavy catalytic cracked naphtha, light catalytic cracked naphtha, light straight-run naphtha and naphtha. On the other hand, insignificant increases in tumour formation or no tumours were observed when light alkylate naphtha, heavy catalytic reformed naphtha, sweetened naphtha, light catalytically cracked naphtha or unleaded gasoline was dermally applied to mice.

No reproductive or developmental toxicity was observed for the majority of LBPN substances evaluated. Most of these studies were carried out by inhalation exposure in rodents. However, developmental toxicity was observed for a few naphthas. Decreased foetus body weight and an increased incidence of bone malformation were observed when female rats were exposed to light aromatized solvent naphtha at 1250mg/kg bodyweight. Another study found that pregnant rats exposed to hydrotreated heavy naphtha (~4500 mg/kg bodyweight) via inhalation birth offspring with greater birth weights, and decreased cognitive and memory ability. For oral exposures, no adverse effects on reproductive parameters were reported when rats were given siterestricted light catalytic cracked naphtha at 2000 mg/kg bodyweight on gestational day 13.

Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-

The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver.

For trimethylbenzenes:

Absorption of 1,2,4-trimethylbenzene occurs after exposure by swallowing, inhalation, or skin contact. In the workplace, inhalation and skin contact are the most important routes of absorption; whole-body toxic effects from skin absorption are unlikely to occur as the skin irritation caused by the chemical generally leads to quick removal. The substance is fat-soluble and may accumulate in fatty tissues. It is also bound to red blood cells in the bloodstream. It is excreted from the body both by exhalation and in the urine.

Acute toxicity: Direct contact with liquid 1,2,4-trimethylbenzene is irritating to the skin, and breathing the vapour is irritating to the airway, causing lung inflammation. Breathing high concentrations of the chemical vapour causes headache, fatigue and

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drowsiness. In humans, liquid 1,2,4-trimethylbenzene is irritating to the skin and inhalation of the vapour causes chemical pneumonitis. Direct skin contact causes dilation of blood vessels, redness and irritation.

Nervous system toxicity: 1,2,4-trimethylbenzene depresses the central nervous system. Exposure to solvent mixtures in the workplace containing the chemical causes headache, fatigue, nervousness and drowsiness.

Subacute/chronic toxicity: Long-term exposure to solvents containing 1,2,4-trimethylbenzene may cause nervousness, tension and inflammation of the bronchi. Painters that worked for several years with a solvent containing 50% 1,2,4-trimethylbenzene and 30% 1,3,5-trimethylbenzene showed nervousness, tension and anxiety, asthmatic bronchitis, anaemia and changes in blood clotting; blood effects may have been due to trace amounts of benzene. Animal testing showed that inhaling trimethylbenzene may alter blood counts, with reduction in lymphocytes and an increase in neutrophils.

Genetic toxicity: Animal testing does not show that the C9 fraction causes mutations or chromosomal aberrations.

Developmental / reproductive toxicity: Animal testing showed that the C9 fraction of 1,2,4-trimethylbenzene caused reproductive toxicity.

For C9 aromatics (typically trimethylbenzenes – TMBs)

Acute toxicity: Animal testing shows that semi-lethal concentrations and doses vary amongst this group. The semilethal concentrations for inhalation range from 6000 to 10000 mg/cubic metre for C9 aromatic naphtha and 18000-24000 mg/cubic metre for 1,2,4- and 1,3,5-TMB, respectively.

Irritation and sensitization: Results from animal testing indicate that C9 aromatic hydrocarbon solvents are mildly to moderately irritating to the skin, minimally irritating to the eye, and have the potential to irritate the airway and cause depression of breathing rate. There is no evidence that it sensitizes skin.

Repeated dose toxicity: Animal studies show that chronic inhalation toxicity for C9 aromatic hydrocarbon solvents is slight. Similarly, oral exposure does not appear to pose a high toxicity hazard for pure trimethylbenzene isomers.

Mutation-causing ability: No evidence of mutation-causing ability and genetic toxicity was found in animal and laboratory testing. Reproductive and developmental toxicity: No definitive effects on reproduction were seen, although reduction in weight in developing animals may been seen at concentrations that are toxic to the mother.

Petroleum contains aromatic (benzene, toluene, ethyl benzene, napthalene) and aliphatic hydrocarbons (n-hexane), which can result in many detrimental health effects, including, cancer, tumour formation, hearing loss, and nervous system toxicity. Animal testing shows breathing in petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans. Similarly, exposure to gasoline over a lifetime can cause kidney cancer in animals, but the relevance in humans is questionable.

Most studies involving gasoline have shown that gasoline does not cause genetic mutation, including all recent studies in living human subjects (such as in petrol service station attendants).

Animal studies show concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus.

Prolonged contact with petroleum may result in skin inflammation and make the skin more sensitive to irritation and penetration by other materials.

#### irrita

**XYLENE** 

Reproductive effector in rats

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling,

the production of vesicles, scaling and thickening of the skin.

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.

| Acute Toxicity                    | ✓        | Carcinogenicity          | ×        |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion         | ~        | Reproductivity           | ×        |
| Serious Eye<br>Damage/Irritation  | <b>~</b> | STOT - Single Exposure   | <b>~</b> |
| Respiratory or Skin sensitisation | ×        | STOT - Repeated Exposure | ×        |
| Mutagenicity                      | ×        | Aspiration Hazard        | ×        |

**Legend:** ★ - Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

## **SECTION 12 Ecological information**

#### Toxicity

| oxicity                                      |                  |                    |                               |                  |                  |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
| CCS Enduro Hi Build Matt                     | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
| naphtha petroleum, light<br>aromatic solvent | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | EC50             | 96h                | Algae or other aquatic plants | 64mg/l           | 2                |
|  | EC50             | 72h                | Algae or other aquatic plants | 19mg/l           | 1                |
|  | NOEC(ECx)        | 72h                | Algae or other aquatic plants | 1mg/l            | 1                |
|  | EC50             | 48h                | Crustacea                     | 6.14mg/l         | 1                |
| xylene                                       | Endpoint         | Test Duration (hr) | Species                       | Value            | Source           |
|  | EC50             | 72h                | Algae or other aquatic plants | 4.6mg/l          | 2                |

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| NOEC(ECx) | 73h | Algae or other aquatic plants | 0.44mg/l | 2 |
|-----------|-----|-------------------------------|----------|---|
| EC50      | 48h | Crustacea                     | 1.8mg/l  | 2 |
| LC50      | 96h | Fish                          | 2.6mg/l  | 2 |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient | Persistence: Water/Soil     | Persistence: Air            |
|------------|-----------------------------|-----------------------------|
| xylene     | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days) |

#### **Bioaccumulative potential**

| Ingredient | Bioaccumulation    |
|------------|--------------------|
| xylene     | MEDIUM (BCF = 740) |

#### Mobility in soil

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

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

## Otherwise:

- ▶ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- ▶ Disposal (if all else fails)

#### **Product / Packaging** disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ 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.
- 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**



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# Marine Pollutant HAZCHEM •3Y

## Land transport (ADG)

| 14.1. UN number or ID number       | 1866                                |                  |
|------------------------------------|-------------------------------------|------------------|
| 14.2. UN proper shipping name      | RESIN SOLUTION, fla                 | ammable          |
| 14.3. Transport hazard class(es)   | Class Subsidiary Hazard             | 3 Not Applicable |
| 14.4. Packing group                | III                                 |                  |
| 14.5. Environmental hazard         | Environmentally hazar               | rdous            |
| 14.6. Special precautions for user | Special provisions Limited quantity | 223<br>5 L       |

#### Air transport (ICAO-IATA / DGR)

| All transport (ICAO-IATA7          | DON   |   |       |  |  |  |
|------------------------------------|---|---|-------|--|--|--|
| 14.1. UN number                    | 1866  |   |       |  |  |  |
| 14.2. UN proper shipping name      | Resin solution flammable                                  |   |       |  |  |  |
|                                    | ICAO/IATA Class   | 3 |       |  |  |  |
| 14.3. Transport hazard class(es)   | ICAO / IATA Subsidiary Hazard Not Applicable              |   |       |  |  |  |
| 01400(00)                          | ERG Code 3L   |   |       |  |  |  |
| 14.4. Packing group                | III   |   |       |  |  |  |
| 14.5. Environmental hazard         | Environmentally hazardous                                 |   |       |  |  |  |
| 14.6. Special precautions for user | Special provisions  |   | А3    |  |  |  |
|                                    | Cargo Only Packing Instructions                           |   | 366   |  |  |  |
|                                    | Cargo Only Maximum Qty / Pack                             |   | 220 L |  |  |  |
|                                    | Passenger and Cargo Packing Instructions                  |   | 355   |  |  |  |
|                                    | Passenger and Cargo Maximum Qty / Pack                    |   | 60 L  |  |  |  |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions |   | Y344  |  |  |  |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            |   | 10 L  |  |  |  |

## Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number                    | 1866                     |          |                |
|------------------------------------|--------------------------|----------|----------------|
| 14.2. UN proper shipping name      | RESIN SOLUTION flammable |          |                |
| 14.3. Transport hazard class(es)   | IMDG Class               |          | 3              |
|                                    | IMDG Subsidiary Hazard   |          | Not Applicable |
| 14.4. Packing group                | III                      |          |                |
| 14.5 Environmental hazard          | Marine Pollutant         |          |                |
| 14.6. Special precautions for user | EMS Number               | F-E , \$ | S-E            |
|                                    | Special provisions       | 223 95   | 55             |
|                                    | Limited Quantities       | 5 L      |                |

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

Not Applicable

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14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                              | Group         |
|---|---------------|
| naphtha petroleum, light aromatic solvent | Not Available |
| xylene                                    | Not Available |

## 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                              | Ship Type     |
|---|---------------|
| naphtha petroleum, light aromatic solvent | Not Available |
| xylene                                    | Not Available |

## **SECTION 15 Regulatory information**

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

## naphtha petroleum, light aromatic solvent is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

#### xylene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

### **Additional Regulatory Information**

Not Applicable

## **National Inventory Status**

| National Inventory                                 | Status  |  |
|--|---|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes   |  |
| Canada - DSL                                       | Yes   |  |
| Canada - NDSL                                      | No (naphtha petroleum, light aromatic solvent; xylene)  |  |
| China - IECSC                                      | Yes   |  |
| Europe - EINEC / ELINCS /<br>NLP                   | Yes   |  |
| Japan - ENCS                                       | Yes   |  |
| Korea - KECI                                       | Yes   |  |
| New Zealand - NZIoC                                | Yes   |  |
| Philippines - PICCS                                | Yes   |  |
| USA - TSCA   | All chemical substances in this product have been designated as TSCA Inventory 'Active'   |  |
| Taiwan - TCSI                                      | Yes   |  |
| Mexico - INSQ                                      | Yes   |  |
| Vietnam - NCI                                      | Yes   |  |
| Russia - FBEPH                                     | Yes   |  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |  |

#### **SECTION 16 Other information**

| Revision Date | 10/03/2023 |
|---------------|------------|
| Initial Date  | 23/04/2018 |

CCS Enduro Hi Build Matt

Issue Date: 10/03/2023
Print Date: 11/11/2024

#### **SDS Version Summary**

| Version | Date of Update | Sections Updated  |
|---------|----------------|---|
| 4.1     | 23/12/2022     | Classification review due to GHS Revision change.                     |
| 5.1     | 10/03/2023     | Classification change due to full database hazard calculation/update. |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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