



## Surrogate Standard

### High-Purity Standards

Catalogue number: BNA-SURR-M6C

Version No: 2.3

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

Chemwatch Hazard Alert Code: 4

Issue Date: 06/05/2017

Print Date: 06/05/2017

S.GHS.USA.EN

## SECTION 1 IDENTIFICATION

### Product Identifier

Product name	Surrogate Standard
Synonyms	BNA-SURR-M6C
Proper shipping name	Dichloromethane
Other means of identification	BNA-SURR-M6C

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Use according to manufacturer's directions.
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### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

### Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

Classification	Skin Sensitizer Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2
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### Label elements

Hazard pictogram(s)	
SIGNAL WORD	WARNING

### Hazard statement(s)

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.

### Hazard(s) not otherwise specified

Not Applicable

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### Precautionary statement(s) Prevention

**P201** Obtain special instructions before use.

### Precautionary statement(s) Response

**P308+P313** IF exposed or concerned: Get medical advice/attention.

### Precautionary statement(s) Storage

**P405** Store locked up.

### Precautionary statement(s) Disposal

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

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
118-79-6	0.2	<u>2,4,6-tribromophenol</u>
321-60-8	0.1	<u>2-fluorobiphenyl</u>
367-12-4	0.2	<u>2-fluorophenol</u>
4165-60-0	0.1	<u>nitrobenzene-D5</u>
13127-88-3	0.2	<u>phenol-D6</u>
1718-51-0	0.1	<u>p-terphenyl-D14</u>
75-09-2	balance	<u>methylene chloride</u>

## SECTION 4 FIRST-AID MEASURES

### Description of first aid measures

<b>Eye Contact</b>	<p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"><li>▶ Immediately hold eyelids apart and flush the eye continuously with 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>▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li><li>▶ Transport to hospital or doctor without delay.</li><li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li></ul>
<b>Skin Contact</b>	<p>If skin contact occurs:</p> <ul style="list-style-type: none"><li>▶ Immediately remove all contaminated clothing, including footwear.</li><li>▶ Flush skin and hair with running water (and soap if available).</li><li>▶ Seek medical attention in event of irritation.</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><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, without delay.</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>▶ <b>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</b></li><li>▶ For advice, contact a Poisons Information Centre or a doctor.</li><li>▶ Urgent hospital treatment is likely to be needed.</li><li>▶ In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li><li>▶ If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li><li>▶ If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li></ul> <p><b>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</b></p> <ul style="list-style-type: none"><li>▶ <b>INDUCE</b> vomiting with fingers down the back of the throat, <b>ONLY IF CONSCIOUS</b>. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li></ul> <p><b>NOTE:</b> Wear a protective glove when inducing vomiting by mechanical means.</p>

### Most important symptoms and effects, both acute and delayed

See Section 11

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

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### BASIC TREATMENT

- ▶ Establish a patent airway with suction where necessary.
- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ▶ Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- ▶ Monitor and treat, where necessary, for pulmonary oedema.
- ▶ Monitor and treat, where necessary, for shock.
- ▶ Anticipate seizures.
- ▶ **DO NOT** use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

### ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- ▶ Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ▶ Drug therapy should be considered for pulmonary oedema.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- ▶ Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

## SECTION 5 FIRE-FIGHTING MEASURES

### Extinguishing media

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

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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### Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul style="list-style-type: none"><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li><li>▶ Prevent, by any means available, spillage from entering drains or water courses.</li><li>▶ Use fire fighting procedures suitable for surrounding area.</li><li>▶ <b>DO NOT</b> approach containers suspected to be hot.</li><li>▶ Cool fire exposed containers with water spray from a protected location.</li><li>▶ If safe to do so, remove containers from path of fire.</li><li>▶ Equipment should be thoroughly decontaminated after use.</li></ul>
Fire/Explosion Hazard	<ul style="list-style-type: none"><li>▶ Non combustible.</li><li>▶ Not considered a significant fire risk, however containers may burn.</li></ul> May emit poisonous fumes.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"><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 spill with sand, earth, inert material or vermiculite.</li><li>▶ Wipe up.</li><li>▶ Place in a suitable, labelled container for waste disposal.</li></ul>
Major Spills	

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

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Safe handling	<ul style="list-style-type: none"><li>▶ Avoid all personal contact, including inhalation.</li><li>▶ Wear protective clothing when risk of exposure occurs.</li><li>▶ Use in a well-ventilated area.</li><li>▶ Prevent concentration in hollows and sumps.</li><li>▶ <b>DO NOT</b> enter confined spaces until atmosphere has been checked.</li><li>▶ <b>DO NOT</b> allow material to contact humans, exposed food or food utensils.</li><li>▶ Avoid contact with incompatible materials.</li><li>▶ <b>When handling, DO NOT</b> eat, drink or smoke.</li><li>▶ Keep containers securely sealed when not in use.</li></ul>
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	<ul style="list-style-type: none"> <li>▶ Avoid physical damage to containers.</li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> </ul>
Other information	<ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ Store in a cool, dry, well-ventilated area.</li> <li>▶ Store away from incompatible materials and foodstuff containers.</li> <li>▶ Protect containers against physical damage and check regularly for leaks.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> <li>▶ Lined metal can, lined metal pail/ can.</li> <li>▶ Plastic pail.</li> <li>▶ Polyliner drum.</li> <li>▶ Packing as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul> <p>For low viscosity materials</p> <ul style="list-style-type: none"> <li>▶ Drums and jerricans must be of the non-removable head type.</li> <li>▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> </ul> <p>For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):</p> <ul style="list-style-type: none"> <li>▶ Removable head packaging;</li> <li>▶ Cans with friction closures and</li> <li>▶ low pressure tubes and cartridges</li> </ul> <p>may be used.</p> <p>-</p> <p>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 *.</p> <p>-</p> <p>In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *.</p> <p>-</p> <p>* unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</p> <p>All inner and sole packagings for substances that have been assigned to Packaging Groups I or II on the basis of inhalation toxicity criteria, must be hermetically sealed.</p>
Storage incompatibility	None known

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	methylene chloride	Methylene chloride	50 ppm	Not Available	Not Available	See Table Z-2
US OSHA Permissible Exposure Levels (PELs) - Table Z2	methylene chloride	Methylene Chloride	Not Available	Not Available	Not Available	See 1919.52.
US NIOSH Recommended Exposure Limits (RELs)	methylene chloride	Dichloromethane, Methylene dichloride	Not Available	Not Available	Not Available	Ca See Appendix A
US ACGIH Threshold Limit Values (TLV)	methylene chloride	Dichloromethane	Not Available	Not Available	Not Available	TLV® Basis: COHb-emia; CNS impair; BEI

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
methylene chloride	Methylene chloride; (Dichloromethane)	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
2,4,6-tribromophenol	Not Available	Not Available
2-fluorobiphenyl	Not Available	Not Available
2-fluorophenol	Not Available	Not Available
nitrobenzene-D5	Not Available	Not Available
phenol-D6	Not Available	Not Available
p-terphenyl-D14	Not Available	Not Available
methylene chloride	10,000 ppm	2,000 ppm

### Exposure controls

Appropriate engineering controls	<p>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.</p> <p>The basic types of engineering controls are:</p>
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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.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. 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 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

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

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction 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.

### Personal protection



### Eye and face protection

- ▶ Safety glasses with side shields.
- ▶ Chemical goggles.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

### Skin protection

See Hand protection below

### Hands/feet protection

- ▶ Wear chemical protective gloves, e.g. PVC.
  - ▶ Wear safety footwear or safety gumboots, e.g. Rubber
- NOTE:**
- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
  - ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
- The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.
- Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:
- frequency and duration of contact,
  - chemical resistance of glove material,
  - glove thickness and
  - dexterity
- Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).
- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
  - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
  - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
  - Contaminated gloves should be replaced.
- 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:

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	<ul style="list-style-type: none"> <li>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.</li> <li>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</li> </ul> <p>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.</p>
Body protection	See Other protection below
Other protection	<ul style="list-style-type: none"> <li>Overalls.</li> <li>Eyewash unit.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>
Thermal hazards	Not Available

## Respiratory protection

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

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul style="list-style-type: none"> <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

Inhaled	<p>The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.</p> <p>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Relatively small amounts absorbed through the lungs may prove fatal.</p> <p>Workers exposed to terphenyl and its isomers are associated with ocular and respiratory tract irritation. Higher concentrations were lethal and produced both respiratory diseases and damaging effect on the system.</p>
Ingestion	<p>Accidental ingestion of the material may be seriously damaging to the health of the individual; animal experiments indicate that ingestion of less than 40 gram may be fatal.</p> <p>In a 14-day dietary study, young rats fed 0.2% of the various isomers of terphenyl showed increased plasma cholesterol, low body weight (o- and m- isomers), liver hypertrophy (m-isomer) and adrenal hypertrophy (o-isomer).</p>

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<b>Skin Contact</b>	<p>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.</p> <p>There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.</p> <p>Topical application of terphenyl and its may produce a damaging effect on the skin (irritation, sensitisation, scarring and skin death) depending on the animal involved.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>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.</p>
<b>Eye</b>	<p>Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).</p> <p>Application of terphenyl to rabbit's eye can cause extreme conjunctival irritation.</p>
<b>Chronic</b>	<p>There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.</p> <p>Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.</p> <p>Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.</p> <p>Workers repeatedly exposed to terphenyl developed non-specific readily reversible skin rash. Feeding trials in rats with un-irradiated mixtures of the isomers of terphenyl showed low body weight, reduced haemoglobin and damaging effect on the kidney.</p>

<b>Surrogate Standard</b>	<table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	TOXICITY	IRRITATION	Not Available	Not Available						
TOXICITY	IRRITATION										
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<b>2,4,6-tribromophenol</b>	<table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>dermal (rat) LD50: &gt;2000 mg/kg<sup>[1]</sup></td><td>Not Available</td></tr> <tr> <td>Oral (rat) LD50: 200 mg/kg<sup>[2]</sup></td><td></td></tr> </table>	TOXICITY	IRRITATION	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	Oral (rat) LD50: 200 mg/kg <sup>[2]</sup>					
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<b>2-fluorobiphenyl</b>	<table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>Not Available</td><td>Not Available</td></tr> </table>	TOXICITY	IRRITATION	Not Available	Not Available						
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<b>methylene chloride</b>	<table> <tr> <th>TOXICITY</th><th>IRRITATION</th></tr> <tr> <td>dermal (rat) LD50: &gt;2000 mg/kg<sup>[1]</sup></td><td>Eye(rabbit): 162 mg - moderate</td></tr> <tr> <td>Inhalation (mouse) LC50: 25200 ppm/7hr<sup>[2]</sup></td><td>Eye(rabbit): 500 mg/24hr - mild</td></tr> <tr> <td>Oral (rat) LD50: 985 mg/kg<sup>[2]</sup></td><td>Skin (rabbit): 100mg/24hr-moderate</td></tr> <tr> <td></td><td>Skin (rabbit): 810 mg/24hr-SEVERE</td></tr> </table>	TOXICITY	IRRITATION	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye(rabbit): 162 mg - moderate	Inhalation (mouse) LC50: 25200 ppm/7hr <sup>[2]</sup>	Eye(rabbit): 500 mg/24hr - mild	Oral (rat) LD50: 985 mg/kg <sup>[2]</sup>	Skin (rabbit): 100mg/24hr-moderate		Skin (rabbit): 810 mg/24hr-SEVERE
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	Skin (rabbit): 810 mg/24hr-SEVERE										

**Legend:**

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

<b>2,4,6-TRIBROMOPHENOL</b>	<p>The following information refers to contact allergens as a group and may not be specific to this product.</p> <p>From available experimental data, the potential for polybrominated fire retardants (PBFRs) to cause cancer, hormonal dysfunction and neuro-developmental toxicity are of concern.</p> <p>Side-reactions during manufacture of the parent compound may result in the production of trace amounts of polyhalogenated aromatic hydrocarbon(s). Polyhalogenated aromatic hydrocarbons (PHAHs) can cause effects on hormones and mimic thyroid hormone.</p>
<b>2-FLUOROBIPHENYL</b>	No significant acute toxicological data identified in literature search.
<b>NITROBENZENE-D5</b>	<p>The material may be irritating to the eye, with prolonged contact causing inflammation.</p> <p>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.</p>
<b>PHENOL-D6</b>	The material may produce severe irritation to the eye causing pronounced inflammation.
<b>METHYLENE CHLORIDE</b>	<p>The material may produce moderate eye irritation leading to inflammation.</p> <p><b>WARNING:</b> This substance has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans.</p> <p>Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild</p>

## Surrogate Standard

<b>2,4,6-TRIBROMOPHENOL &amp; 2-FLUOROPHENOL &amp; PHENOL-D6 &amp; P-TERPHENYL-D14</b>		Asthma-like symptoms may continue for months or even years after exposure to the material ends.	
<b>PHENOL-D6 &amp; METHYLENE CHLORIDE</b>		The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.	
<b>Acute Toxicity</b>	☐	<b>Carcinogenicity</b>	✓
<b>Skin Irritation/Corrosion</b>	☐	<b>Reproductivity</b>	✓
<b>Serious Eye Damage/Irritation</b>	☐	<b>STOT - Single Exposure</b>	☐
<b>Respiratory or Skin sensitisation</b>	✓	<b>STOT - Repeated Exposure</b>	☐
<b>Mutagenicity</b>	☐	<b>Aspiration Hazard</b>	☐

**Legend:** ✗ – Data available but does not fill the criteria for classification  
 ✓ – Data available to make classification  
 ☐ – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity

Surrogate Standard	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
2,4,6-tribromophenol	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	2.206mg/L	3
	EC50	48	Crustacea	0.22mg/L	5
	EC50	72	Algae or other aquatic plants	≈0.4-72mg/L	1
	EC50	504	Crustacea	>0.1- <0.15mg/L	2
	NOEC	504	Crustacea	0.025mg/L	2
2-fluorobiphenyl	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1.085mg/L	3
	EC50	96	Algae or other aquatic plants	1.576mg/L	3
	EC50	384	Crustacea	0.272mg/L	3
2-fluorophenol	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	24.846mg/L	3
	EC50	96	Algae or other aquatic plants	100.525mg/L	3
nitrobenzene-D5	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	27.596mg/L	3
	EC50	96	Algae or other aquatic plants	86.357mg/L	3
	EC50	384	Crustacea	6.591mg/L	3
phenol-D6	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	34.471mg/L	3
	EC50	96	Algae or other aquatic plants	120.061mg/L	3
	EC50	384	Crustacea	8.176mg/L	3
p-terphenyl-D14	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	0.079mg/L	3
	EC50	96	Algae or other aquatic plants	0.082mg/L	3
	EC50	384	Crustacea	0.026mg/L	3
methylene chloride	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	≈13.1mg/L	1
	EC50	48	Crustacea	≈108.5mg/L	1
	EC50	96	Algae or other aquatic plants	161.874mg/L	3

Continued...



## Surrogate Standard

EC50	384	Crustacea	10.334mg/L	3
NOEC	96	Algae or other aquatic plants	56mg/L	4

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

For Mixed Terphenyls and Quaterphenyls:

Environmental Fate: Environmental fate of these substances is expected to be focused primarily in the soil and sediment compartments.

Terrestrial Fate: These chemicals are expected to extensively degrade. Half-lives in soil range between 8-12 weeks. Mixed terphenyls and quaterphenyls are solid and waxy at room temperature and possess exceedingly low vapor pressures. Waxiness increases as vapor pressure decreases and molecular weight increases.

Aquatic Fate: All water solubility values for mixed terphenyls, its isomeric components and the quaterphenyls, establish this category of chemicals as possessing very low water solubility. None of these chemicals are readily hydrolysable; all have exceedingly low water solubility characteristics, and would be expected to undergo limited photolysis in the environment.

Ecotoxicity: Mixed terphenyls biodegrade slowly in the environment and are slightly toxic to Daphnia magna water fleas, rainbow trout and fathead minnow.

#90coumarin

For Coumarin / Indanedione Rodenticides: These rodenticides are anticoagulants.

Atmospheric Fate: Because of their low vapor pressure, these chemicals do not readily volatilize into the air.

Aquatic Fate: These chemicals appear to be stable to hydrolysis at pH 7 and 9.

Terrestrial Fate: These rodenticides show low volatility from moist soil and water surfaces and are moderately persistent and immobile in soils. An exception is bromadiolone, which may leach in soils low in organic matter and clay.

Ecotoxicity: Most coumarin / indanedione rodenticides have the potential for bioaccumulation. These classes of pesticides are acutely and chronically toxic to a wide variety of organisms, including birds, mammals, fish and aquatic invertebrates. Coumarin / indanedione rodenticides are moderately to highly toxic to invertebrates and moderately to very highly toxic to birds and mammals.

Additionally, they are a cause of secondary toxicity to predator/scavenger birds and mammals.

**DO NOT** discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
2,4,6-tribromophenol	HIGH	HIGH
2-fluorobiphenyl	HIGH	HIGH
2-fluorophenol	HIGH	HIGH
nitrobenzene-D5	HIGH	HIGH
phenol-D6	HIGH	HIGH
p-terphenyl-D14	HIGH	HIGH
methylene chloride	LOW (Half-life = 56 days)	HIGH (Half-life = 191 days)

## Bioaccumulative potential

Ingredient	Bioaccumulation
2,4,6-tribromophenol	MEDIUM (LogKOW = 4.13)
2-fluorobiphenyl	MEDIUM (LogKOW = 3.9574)
2-fluorophenol	LOW (LogKOW = 1.71)
nitrobenzene-D5	LOW (LogKOW = 1.8107)
phenol-D6	LOW (LogKOW = 1.5128)
p-terphenyl-D14	HIGH (LogKOW = 5.521)
methylene chloride	LOW (BCF = 40)

## Mobility in soil

Ingredient	Mobility
2,4,6-tribromophenol	LOW (KOC = 1186)
2-fluorobiphenyl	LOW (KOC = 10330)
2-fluorophenol	LOW (KOC = 443.1)
nitrobenzene-D5	LOW (KOC = 190.8)
phenol-D6	LOW (KOC = 268)
p-terphenyl-D14	LOW (KOC = 236100)
methylene chloride	LOW (KOC = 23.74)

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

Product / Packaging disposal	<ul style="list-style-type: none"> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> </ul> <p>Otherwise:</p> <ul style="list-style-type: none"> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> </ul>
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Continued...

## Surrogate Standard

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)

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.

## SECTION 14 TRANSPORT INFORMATION

### Labels Required

	
Marine Pollutant	NO

### Land transport (DOT)

UN number	1593				
UN proper shipping name	Dichloromethane				
Transport hazard class(es)	<table border="1"> <tr> <td>Class</td><td>6.1</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>	Class	6.1	Subrisk	Not Applicable
Class	6.1				
Subrisk	Not Applicable				
Packing group	I				
Environmental hazard	Not Applicable				
Special precautions for user	<table border="1"> <tr> <td>Hazard Label</td><td>6.1</td></tr> <tr> <td>Special provisions</td><td>IB3, IP8, N36, T7, TP2</td></tr> </table>	Hazard Label	6.1	Special provisions	IB3, IP8, N36, T7, TP2
Hazard Label	6.1				
Special provisions	IB3, IP8, N36, T7, TP2				

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

UN number	1593														
UN proper shipping name	Dichloromethane														
Transport hazard class(es)	<table border="1"> <tr> <td>ICAO/IATA Class</td><td>6.1</td></tr> <tr> <td>ICAO / IATA Subrisk</td><td>Not Applicable</td></tr> <tr> <td>ERG Code</td><td>6L</td></tr> </table>	ICAO/IATA Class	6.1	ICAO / IATA Subrisk	Not Applicable	ERG Code	6L								
ICAO/IATA Class	6.1														
ICAO / IATA Subrisk	Not Applicable														
ERG Code	6L														
Packing group	I														
Environmental hazard	Not Applicable														
Special precautions for user	<table border="1"> <tr> <td>Special provisions</td><td>Not Applicable</td></tr> <tr> <td>Cargo Only Packing Instructions</td><td>663</td></tr> <tr> <td>Cargo Only Maximum Qty / Pack</td><td>220 L</td></tr> <tr> <td>Passenger and Cargo Packing Instructions</td><td>655</td></tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td><td>60 L</td></tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td><td>Y642</td></tr> <tr> <td>Passenger and Cargo Limited Maximum Qty / Pack</td><td>2 L</td></tr> </table>	Special provisions	Not Applicable	Cargo Only Packing Instructions	663	Cargo Only Maximum Qty / Pack	220 L	Passenger and Cargo Packing Instructions	655	Passenger and Cargo Maximum Qty / Pack	60 L	Passenger and Cargo Limited Quantity Packing Instructions	Y642	Passenger and Cargo Limited Maximum Qty / Pack	2 L
Special provisions	Not Applicable														
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Passenger and Cargo Packing Instructions	655														
Passenger and Cargo Maximum Qty / Pack	60 L														
Passenger and Cargo Limited Quantity Packing Instructions	Y642														
Passenger and Cargo Limited Maximum Qty / Pack	2 L														

### Sea transport (IMDG-Code / GGVSee)

UN number	1593				
UN proper shipping name	DICHLOROMETHANE				
Transport hazard class(es)	<table border="1"> <tr> <td>IMDG Class</td><td>6.1</td></tr> <tr> <td>IMDG Subrisk</td><td>Not Applicable</td></tr> </table>	IMDG Class	6.1	IMDG Subrisk	Not Applicable
IMDG Class	6.1				
IMDG Subrisk	Not Applicable				
Packing group	I				
Environmental hazard	Not Applicable				

## Surrogate Standard

### Special precautions for user

EMS Number	F-A, S-A
Special provisions	Not Applicable
Limited Quantities	5 L

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

Not Applicable

## SECTION 15 REGULATORY INFORMATION

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

#### 2,4,6-TRIBROMOPHENOL(118-79-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

#### 2-FLUOROBIPHENYL(321-60-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Hawaii Air Contaminant Limits

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

#### 2-FLUOROPHENOL(367-12-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft

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

US - Hawaii Air Contaminant Limits

#### NITROBENZENE-D5(4165-60-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### PHENOL-D6(13127-88-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### P-TERPHENYL-D14(1718-51-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

#### METHYLENE CHLORIDE(75-09-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

US - Alaska Limits for Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals Causing Reproductive Toxicity

US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)

US - Wyoming Toxic and Hazardous Substances Table Z-2 Acceptable ceiling concentration, Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

US - California Permissible Exposure Limits for Chemical Contaminants

US ACGIH Threshold Limit Values (TLV)

US - California Proposition 65 - Carcinogens

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US - Hawaii Air Contaminant Limits

US Clean Air Act - Hazardous Air Pollutants

US - Idaho - Acceptable Maximum Peak Concentrations

US CWA (Clean Water Act) - Priority Pollutants

US - Idaho - Limits for Air Contaminants

US CWA (Clean Water Act) - Toxic Pollutants

US - Massachusetts - Right To Know Listed Chemicals

US EPA Carcinogens Listing

US - Michigan Exposure Limits for Air Contaminants

US EPCRA Section 313 Chemical List

US - Minnesota Permissible Exposure Limits (PELs)

US National Toxicology Program (NTP) 14th Report Part B.

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens

US NIOSH Recommended Exposure Limits (RELs)

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens

US OSHA Carcinogens Listing

US - Oregon Permissible Exposure Limits (Z-1)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US - Pennsylvania - Hazardous Substance List

US OSHA Permissible Exposure Levels (PELs) - Table Z2

US - Rhode Island Hazardous Substance List

US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

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

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

US TSCA New Chemical Exposure Limits (NCEL)

### Federal Regulations

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	Yes
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

##### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Dichloromethane	1000	454

## State Regulations

### US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

### US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Dichloromethane (Methylene chloride) Listed

National Inventory	Status
Australia - AICS	N (2-fluorobiphenyl; p-terphenyl-D14; nitrobenzene-D5; phenol-D6)
Canada - DSL	N (2-fluorobiphenyl; p-terphenyl-D14; nitrobenzene-D5; 2-fluorophenol; phenol-D6)
Canada - NDSL	N (2,4,6-tribromophenol; methylene chloride; p-terphenyl-D14; nitrobenzene-D5; phenol-D6)
China - IECSC	N (p-terphenyl-D14; nitrobenzene-D5; phenol-D6)
Europe - EINEC / ELINCS / NLP	N (p-terphenyl-D14)
Japan - ENCS	N (2,4,6-tribromophenol; 2-fluorobiphenyl; p-terphenyl-D14; nitrobenzene-D5; 2-fluorophenol)
Korea - KECI	N (2-fluorobiphenyl; p-terphenyl-D14; nitrobenzene-D5; 2-fluorophenol; phenol-D6)
New Zealand - NZIoC	N (2-fluorobiphenyl; p-terphenyl-D14)
Philippines - PICCS	N (2-fluorobiphenyl; p-terphenyl-D14; nitrobenzene-D5; phenol-D6)
USA - TSCA	N (p-terphenyl-D14; nitrobenzene-D5; phenol-D6)
<b>Legend:</b>	<i>Y = All ingredients are on the inventory</i> <i>N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i>

## SECTION 16 OTHER INFORMATION

### Other information

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

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

### Definitions and abbreviations

PC — TWA: Permissible Concentration-Time Weighted Average  
PC — STEL: Permissible Concentration-Short Term Exposure Limit  
IARC: International Agency for Research on Cancer  
ACGIH: American Conference of Governmental Industrial Hygienists  
STEL: Short Term Exposure Limit  
TEEL: Temporary Emergency Exposure Limit,  
IDLH: Immediately Dangerous to Life or Health Concentrations  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index

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