SAFETY DATA SHEET



B49 Octobase System Transparent Red Brown

Section 1. Identification

Product identifier : B49 Octobase System Transparent Red Brown

Product type : Liquid.

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

Identified uses

Use in coatings - Basecoat

Supplier's details : Valspar b.v.

Zuiveringweg 89 8243 PE Lelystad The Netherlands

tel: +31 (0)320 292200 fax: +31 (0)320 292201

Emergency telephone

number (with hours of

operation)

: SINGAPORE:

CALL: +(65)-31581349 / 800-101-2201 (Hours of operation - 24 hours)

電洽: +(65)-31581349 / 800-101-2201 (上班時間 - 24小時)

SRI LANKA:

Intl #: +1 703-741-5970

Section 2. Hazards identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITISATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

GHS label elements, including precautionary statements









Signal word

Danger

Hazard statements

: Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure. (hearing

organs)

Precautionary statements

Prevention

: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 1/14

Section 2. Hazards identification

Response

: Get medical advice/attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
n-butyl acetate	≥25 - ≤50	123-86-4
xylene	≥10 - ≤16	1330-20-7
2-methoxy-1-methylethyl acetate	≤10	108-65-6
ethylbenzene	≤5	100-41-4
butan-1-ol	≤2.1	71-36-3
2-methylpropan-1-ol	≤1.5	78-83-1
n-butyl methacrylate	≤0.3	97-88-1
methyl methacrylate	≤0.3	80-62-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version: 1 2/14

Section 4. First aid measures

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

media

: Do not use water jet.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version: 1 3/14

Section 5. Firefighting measures

Specific hazards arising from the chemical

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 4/14

Section 7. Handling and storage

Advice on general occupational hygiene

(ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
n-butyl acetate	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 150 ppm 8 hours. PEL (long term): 713 mg/m³ 8 hours. PEL (short term): 950 mg/m³ 15 minutes. PEL (short term): 200 ppm 15 minutes.
xylene	Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 651 mg/m³, 0 times per shift, 15 minutes. PEL (short term): 150 ppm, 0 times per shift, 15 minutes. PEL (long term): 434 mg/m³, 0 times per shift, 8 hours. PEL (long term): 100 ppm, 0 times per shift,
ethylbenzene	8 hours. Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 543 mg/m³ 15 minutes. PEL (short term): 125 ppm 15 minutes. PEL (long term): 434 mg/m³ 8 hours. PEL (long term): 100 ppm 8 hours.
butan-1-ol	Workplace Safety and Health Act (Singapore, 2/2006). PEL (short term): 152 mg/m³ 15 minutes. PEL (short term): 50 ppm 15 minutes.
2-methylpropan-1-ol	Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 152 mg/m³ 8 hours.
methyl methacrylate	PEL (long term): 50 ppm 8 hours. Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 410 mg/m³ 8 hours. PEL (long term): 100 ppm 8 hours.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version: 1 5/14

Section 8. Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles and/or face shield.

Skin protection

Hand protection

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 Viton® polyvinyl alcohol (PVA) >= 0.7 mm
 - < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Brown. [Transparent]

Odour : Not available.
Odour threshold : Not available.
pH : Not applicable.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 6/14

B49 Octobase System Transparent Red Brown

Section 9. Physical and chemical properties

Melting point : Not applicable. **Boiling point** : >100°C (>212°F)

Flash point : Closed cup: 25°C (77°F)

Evaporation rate : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits Vapour pressure

Vapour density

: Not available. : Not available.

Relative density 0.944

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water Partition coefficient: n-

octanol/water

: Not available. : Not applicable.

: Not available. Auto-ignition temperature **Decomposition temperature** : Not applicable.

: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) **Viscosity**

Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SADT : Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
·	LD50 Dermal	Rabbit	>14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	_
	LD50 Oral	Rat	3523 to 4000 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat - Female	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
•	LD50 Dermal	Rabbit	12126 mg/kg	-

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version: 1 7/14

Section 11. Toxicological information

	LD50 Oral	Rat	3523 to 4000	-
			mg/kg	
butan-1-ol	LC50 Inhalation Vapour	Rat	>17.76 mg/l	4 hours
	LD50 Dermal	Rabbit	3430 mg/kg	-
	LD50 Oral	Rat	2292 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	8000 mg/l	4 hours
	LD50 Dermal	Rabbit	3392 mg/kg	-
	LD50 Oral	Rat	24600 mg/kg	-
n-butyl methacrylate	LC50 Inhalation Vapour	Rat	4910 ppm	4 hours
	LD50 Oral	Rat	16 g/kg	-
methyl methacrylate	LC50 Inhalation Vapour	Rat - Male,	29.8 mg/l	4 hours
		Female		
	LD50 Dermal	Rabbit	5000 mg/kg	-
	LD50 Oral	Rat	7872 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
	Eyes - Mild irritant	Rabbit	_	87 milligrams	_
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Eyes - Severe irritant	Rabbit	-	0.005 Mililiters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
n-butyl methacrylate	Skin - Mild irritant	Rabbit	-	500 microliters	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 8/14

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl methacrylate	Category 3	-	Respiratory tract
			irritation
methyl methacrylate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 2	-	-

Aspiration hazard

Name	Result
xylene	ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact: Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u> <u>Short term exposure</u>

Date of issue/Date of revision: 7/27/2022Date of previous issue: 3/30/2021Version: 19/14

Section 11. Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	24242.99 mg/kg
Dermal	6940.62 mg/kg
Inhalation (gases)	40066.28 ppm
Inhalation (vapours)	282.07 mg/l

Section 12. Ecological information

Toxicity

ute EC50 397 mg/l ute EC50 44 mg/l ute LC50 32 mg/l ute LC50 18 mg/l	Algae - Selenastrum capricornutum Daphnia - Daphnia magna Crustaceans - Artemia salina	72 hours 48 hours
ute LC50 32 mg/l	Daphnia - Daphnia magna	
ute LC50 32 mg/l		
	Crustaceans - Artemia salina	
ıte LC50 18 mg/l	Orastaccaris 7 internia sanna	48 hours
	Fish - Pimephales promelas	96 hours
ute NOEC 200 mg/l	Algae	72 hours
ute EC50 1 to 10 mg/l	Algae	72 hours
ute EC50 1 to 10 mg/l	Daphnia - Daphnia magna	48 hours
ıte LC50 1 to 10 mg/l	Fish	96 hours
ute EC50 >1000 mg/l	Algae - Pseudokirchnerella	96 hours
-	subcapitata	
ıte EC50 408 mg/l	Daphnia - Daphnia magna	48 hours
ıte LC50 134 mg/l	Fish - Oncorhynchus mykiss	96 hours
ute LC50 >10 mg/l	Fish - Pimephales promelas	96 hours
ıte EC50 225 mg/l	Algae - Desmodesmus	96 hours
_	subspicatus	
ıte EC50 1328 mg/l	Daphnia - Daphnia magna	48 hours
ıte LC50 1376 mg/l	Fish - Pimephales promelas	96 hours
ronic NOEC 4.1 mg/l	Daphnia - Daphnia magna	21 days
ıte EC50 1799 mg/l	Algae - Pseudokirchneriella	72 hours
_	subcapitata	
ıte EC50 1799 mg/l	Aquatic plants - Scenedesmus	72 hours
_	subspicatus	
ıte EC50 1100 mg/l	Daphnia - Daphnia pulex	48 hours
ıte LC50 1430 mg/l	Fish - Pimephales promelas	96 hours
ronic NOEC 117 mg/l	Algae - Pseudokirchneriella	72 hours
	ute LC50 18 mg/l ute NOEC 200 mg/l ute EC50 1 to 10 mg/l ute EC50 >1000 mg/l ute EC50 408 mg/l ute LC50 134 mg/l ute LC50 >10 mg/l ute EC50 225 mg/l ute EC50 1328 mg/l ute LC50 1376 mg/l ronic NOEC 4.1 mg/l ute EC50 1799 mg/l ute EC50 1799 mg/l ute EC50 1100 mg/l ute EC50 1430 mg/l	rite LC50 18 mg/l rite NOEC 200 mg/l rite EC50 1 to 10 mg/l rite EC50 >1000 mg/l rite EC50 408 mg/l rite EC50 134 mg/l rite EC50 >10 mg/l rite EC50 225 mg/l rite EC50 1328 mg/l rite EC50 1376 mg/l rite EC50 1799 mg/l rite EC50 1100 mg/l rite EC50 1430 mg/l rite EC50 150 mg/l rite EC50

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 10/14

B49 Octobase System Transparent Red Brown

Section 12. Ecological information

		subcapitata	
	Chronic NOEC 20 mg/l	Daphnia - Daphnia magna	21 days
n-butyl methacrylate	Chronic NOEC 2.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
methyl methacrylate	Acute EC50 >110 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 69 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 130 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute NOEC 49 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Chronic NOEC 37 mg/l Fresh water Chronic NOEC 9.4 mg/l Fresh water	Daphnia - Daphnia magna Fish - Danio rerio	21 days 35 days

Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
n-butyl acetate	OECD 301D Ready Biodegradability -	>80 % - 5 days		-	-
	Closed Bottle Test				
2-methoxy-1-methylethyl acetate	OECD 302B Inherent Biodegradability:	100 % - 28 days		-	-
	Zahn-Wellens/ EMPA Test	92.0/ 20 days			
	OECD 301F Ready Biodegradability -	83 % - 28 days		-	-
	Manometric Respirometry Test				
butan-1-ol	OECD 301E Ready Biodegradability -	>70 % - 19 days		-	-
	Modified OECD Screening Test				
2-methylpropan-1-ol	-	70 to 80 % - 28 days	5	-	-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradabilit

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-butyl acetate 2-methoxy-1-methylethyl	-	-	Readily Readily
acetate butan-1-ol 2-methylpropan-1-ol	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	low
xylene	3.12	8.1 to 25.9	low
2-methoxy-1-methylethyl	1.2	-	low
acetate			
ethylbenzene	3.6	-	low
butan-1-ol	1	-	low
2-methylpropan-1-ol	1	-	low
n-butyl methacrylate	2.99	-	low
methyl methacrylate	1.38	-	low

Mobility in soil

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 11/14

Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA	ADR/RID	ADN
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	Paint	PAINT	PAINTPAINT
Transport hazard class (es)	3	3	3	3	3
Packing group	III	III	III	III	III
Environmental hazards	No.	No.	No.	No.	Yes.

Additional information

UN : <u>Special provisions</u> 163, 223

IMDG : <u>Emergency schedules</u> F-E, _S-E_ <u>Special provisions</u> 163, 223, 955

IATA : Quantity limitation Passenger and

: **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -

Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3, A72

ADR/RID : <u>Hazard identification number</u> 30

Limited quantity 5 L

Special provisions 163, 640E, 650

Tunnel code (D/E)

ADN : The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

Special provisions 163, 640E, 650

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 12/14

Section 14. Transport information

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

National inventory

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

History

Date of printing : 7/28/2022 Date of issue/Date of : 7/27/2022

revision

Date of previous issue : 3/30/2021

Version : 1

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 13/14

B49 Octobase System Transparent Red Brown

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue/Date of revision : 7/27/2022 Date of previous issue : 3/30/2021 Version : 1 14/14