Date of issue: 12th May, 2017

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: GRACEMATE POPPY/GARDENIA

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

Identified uses: Air freshener **Uses advised against:** No information

1.3. Details of the supplier of the safety data sheet

Name of supplier (importer): TRUCK SHOP B.V.

Department in Charge Michel Zuurdeeg

Address De Corridor 12 E 3621 ZB Breukelen Netherlands

Telephone number +31-346-284848

Fax number

e-mail address michel@truck-shop.nl

Name of manufacturer in Japan: DIA CHEMICAL CO., LTD.

Department in Charge

Address 2-20-13, Midorigaoka, Toyonaka-shi, Osaka, 560-0002 Japan

Telephone number +81-6-6846-3735 **Fax number** +81-6-6846-3731

e-mail address

1.4. Emergency telephone number

+81-6-6846-3735

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with EC No 1272/2008:

Flam. Liq. 2: H225
Skin Sens. 1: H317
Eye Irrit. 2: H319
STOT SE 3: H335
STOT SE 3: H336
Carc. 1: H350
Repr. 1: H360
Lact. : H362
STOT SE 2: H371
STOT RE 1: H372
STOT RE 2: H373

Aquatic Chronic 3: H412

2.2. Label elements

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In accordance with EC No 1272/2008:

Pictogram







Signal word Danger

Hazard Statements H225: Highly flammable liquid and vapour

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H350: May cause cancer

H360: May damage fertility or the unborn child

H362: May cause harm to breast-fed children

H371: May cause damage to organs

H372: Causes damage to organs through prolonged or

repeated exposure

H373: May cause damage to organs through prolonged or

repeated exposure

H412: Harmful to aquatic life with long lasting effects

Precautionary Statements

[Prevention] P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P260: Do not breathe dust/fume/gas/mist/vapours/spray. P263: Avoid contact during pregnancy/while nursing.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

[Emergency response] P308+P313: IF exposed or concerned: Get medical

advice/attention.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

Product Name: GRACEMATE POPPY/GARDENIA

Information on ingredients:

Chemical	CAS No.	EC No.	Index	REACH	Concentrat	Classification**	Specific
nomo			No.	Registrat	ion (wt %)		Concentration limits
name				ion No.*			
Benzyl	140-11-4	205-399-	-	-	1.5	Skin Irrit. 2:	-
acetate		7				H315	

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						Eye Irrit. 2:	
						H319	
						STOT SE 3:	
						Н336	
						STOT SE 1:	
						H370	
						STOT RE 1:	
						H372	
						STOT RE 2:	
						H373	
						Aquatic Chronic	
						3: H412	
Ethyl	141-78-6	205-500-	607-022-	-	0.1 - 0.5	Flam. Liq. 2:	_
acetate	141-78-0			-	0.1 - 0.3		-
acciaic		4	00-5			H225	
						Eye Irrit. 2:	
						H319	
						Acute Tox. 4:	
						Н332	
						STOT SE 3:	
						H335	
						STOT SE 3:	
						H336	
Pentyl	628-63-7	211-047-	607-130-	-	0.1 - 0.5	Flam. Liq. 3:	-
acetate		3	00-2			H226	
						Skin Irrit. 2:	
						H315	
						Eye Irrit. 2:	
						Н319	
						STOT SE 3:	
						H335	
						STOT SE 3:	
						H336	
						STOT RE 1:	
						H372	
Geraniol	106 24 1	202 277			0.1. 1		
Geranioi	106-24-1	203-377-	-	-	0.1 - 1	Skin Irrit. 2:	-
		1				H315	
						Skin Sens. 1:	
						H317	
						STOT SE 3:	
						Н336	
1-	111-27-3	203-852-	603-059-	-	0.1 - 0.5	Flam. Liq. 3:	-
Hexanol		3	00-6			H226	
						Acute Tox. 4:	
						H302	
						Skin Irrit. 2:	
						H315	
						Eye Irrit. 2:	
						H319	
						Aquatic Chronic	
						3: H412	
d-	5989-27-	227-813-	601-029-	_	0.1 - 0.5	Flam. Liq. 3:	_
Limonene	5	5	001-029-	-	0.1 - 0.3	H226	
			JU-1			Skin Irrit. 2:	
						H315	
						Skin Sens. 1:	
						H317	

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						A4: A4	
						Aquatic Acute	
						1: H400	
						Aquatic Chronic	
Ed. 1						1: H410	
Ethanol	64-17-5	200-578-	603-002-	-	44	Flam. Liq. 2:	-
		6	00-5			H225	
						Eye Irrit. 2:	
						H319	
						STOT SE 3:	
						H335	
						STOT SE 3:	
						H336	
						Carc. 1: H350	
						Repr. 1: H360	
						STOT RE 1:	
						H372	
						STOT RE 2:	
						H373	
Castor	72245-	-	-	-	5	-	-
oil,	04-6						
hydrogen							
ated,							
ethoxylat							
ed							
propoxyla ted							
Docusate	577-11-7	209-406-			0.73 - 0.75	Skin Irrit. 2:	_
sodium	3//-11-/	209-400- 4	-	-	0.73 - 0.73	H315	-
Journal		+				Eye Irrit. 2:	
						H319	
						Repr. 2: H361	
						Lact. : H362	
						Aquatic Chronic	
Water	7722 10	221 701			40.2	3: H412	
water	7732-18- 5	231-791-	-	-	40.2	=	-

^{*} Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED If you feel unwell, get medical advice/ attention immediately

and at rest. If symptoms continue, call a doctor/physician.

IF ON SKIN Rinse with plenty of water and soap. If symptoms continue,

call a doctor/physician.

Immediately rinse cautiously with water for 15 - 20 minutes. IF IN EYES

Remove contact lenses, if present and easy to do. Continue

rinsing. If symptoms continue, call a doctor/physician.

IF SWALLOWED Rinse mouth. Immediately get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction

Causes serious eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

May cause cancer

May damage fertility or the unborn child

May cause harm to breast-fed children

May cause damage to organs

Causes damage to organs through prolonged or repeated exposure

May cause damage to organs through prolonged or repeated exposure

^{**} Full texts of relevant hazard statements and risk phrases can be seen in SECTION 16 of this SDS.

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4.3. Indication of any immediate medical attention and special treatment needed

No information

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use water mist, dry chemical powder, alcohol resistance foam or carbon dioxide.

Unsuitable extinguishing media

Applying direct water may be dangerous because fire may expand to surroundings.

5.2. Special hazards arising from the substance or mixture

In case of fire, toxic decomposition products may be generated.

5.3. Advice for firefighters

Cut off any ignition sources and extinguish with an appropriate agent.

Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading.

Take action from windward.

Keep out except responsible personnel.

Move container to a safe area if it can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Wear suitable protective equipment (see SECTION 8) e.g., safety gloves, protective mask and/or protective glasses to prevent exposure.

For emergency responders:

Keep out except responsible personnel.

Wear suitable protective equipment described in "SECTION 8: Exposure controls/ personal protection"

6.2. Environmental precautions

Avoid release into the environment because product may cause local effects.

6.3. Methods and material for containment and cleaning up

Stop leak if you can do it without risk.

In case of small amounts, wipe off spilled material with waste or wiping cloth and collect it in an adequate waste container.

If case of large amounts, prevent leakage and enclose by embankment.

Do not eat or drink near handling and storage locations.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Prevent to flowing into drains, sewers, basements or closed areas.

6.4. Reference to other sections

Refer to "SECTION 8: Exposure controls/personal protection" and "SECTION 13: Disposal considerations" as appropriate.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:

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Install appropriate equipment and wear suitable protective apparatus described in "SECTION 8:

Exposure controls/ personal protection".

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Advice on general occupational hygiene:

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:

Install appropriate equipment and wear suitable protective apparatus described in "SECTION 8: Exposure controls/ personal protection".

Incompatible materials:

Oxidizing agents

Conditions for safe storage:

Avoid sunlight. Store in a cool place. Avoid high-temperature materials.

Packing material:

Use a sealed container without damage or leakage.

7.3. Specific end use(s)

Air freshener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acceptable concentration (exposure limit, biological exposure index)

EU IOELV-8hr (2000)	50 ppm (Pentylacetate)		
EU IOELV-Short term (2000)	100 ppm (Pentylacetate)		
UK HSE WELs-8hr TWA (2011)	200 ppm (Ethyl acetate) 1,000 ppm (Ethanol) 400 ppm (Ethyl acetate)		
UK HSE WELs-Short term (2011)			
ACGIH TLV-TWA (2016)	10 ppm (Benzyl acetate) 400 ppm (Ethyl acetate)		
ACGIH TLV-STEL (2016)	50 ppm (1-Pentyl acetate) 100 ppm (1-Pentyl acetate) 1,000 ppm (Ethanol)		

8.2. Exposure controls

Appropriate engineering controls:

Shower and eye washer should be available in the work area. Under high temperature or in case of mist generation, use ventilation.

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Personal protective equipment:

Respiratory protection Wear appropriate protective mask or air aspirator as required.

Hand protection If hand contact is possible, wear protective gloves.

Eye protection Wear safety glasses or goggles if in eyes.

Skin and body protection Wear protective clothing and apron if necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

(physical state, form and colour)

Odour Gardenia odour
Odour threshold No information
pH No information
Melting point/freezing point No information
Initial boiling point and boiling range No information

Flash point 22°C

Evaporation rate No information Flammability (solid, gas) No information Upper/lower flammability or No information

explosive limits

Vapour pressure No information Vapour density No information Relative density No information Solubility (ies) No information Partition coefficient: *n*-octanol/water No information Auto-ignition temperature No information Decomposition temperature No information No information Viscosity No information Explosive properties No information Oxidising properties

9.2. Other information

No information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal handling condition.

10.2. Chemical stability

Stable under normal handling condition.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

10.4. Conditions to avoid

Avoid sunlight. Store in a cool place.

10.5. Incompatible materials

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Oxidizing agents

10.6. Hazardous decomposition products

In case of fire, toxic decomposition products may be generated.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on product:

No information

Information on ingredients:

Benzyl acetate

Acute toxicity (oral): Rat $LD_{50} = 2,490 \text{ mg/kg}$ Acute toxicity (dermal): Rabbit $LD_{50} > 5,000 \text{ mg/kg}$

Skin corrosion/irritation: It was reported that this material caused irritation of skin, eyes

and throat.

Serious eye damage/irritation: This material caused eyes irritation of human and rabbit.

STOT-single exposure: There is the statement that respiratory irritation and anesthetic

actions in humans, and pulmonary congestion, and pulmonary edemas in mouse by steam exposure, and inhibitation of

central nerve.

STOT-repeated exposure:

There is the statement that this material causes disorders in the lide are of the hymnes by continuous inhelation are given. In

kidney of the humans by continuous inhalation exposure. In addition, there is the statement that atrophy and degeneration of nasal mucosas, hyperplasia of nasal submucosal, and the pigmentation of the nasal-mucosa epithelium were observed in

feed administration to mice.

Ethyl acetate

Acute toxicity (oral): Rat $LD_{50} = 4,940 \text{ mg/kg}$

Acute toxicity (dermal): Rabbit $LD_{50} > 18,000 \text{ mg/kg}$ Acute toxicity (inhalation: vapour): Rat $LC_{50} = 3,658 \text{ppmV}$

Serious eye damage/irritation: There is a report of a Draize test using 4 rabbits where corneal

opacity (4/4) was resolved within 2 days, iritis (1/4) was resolved within 2 days, conjunctivae redness, chemosis and discharge (4/4) disappeared by 7 days after application of 0.1 mL to the eyes, and the MMAS (Modified Maximum Average Score) at 24, 48 and 72-hour after application was calculated to be 15.0. As relevant information, the substance is classified

as Xi; R36 in EU classification.

STOT-single exposure: It was reported that exposure of volunteers for 4-hour to 400

ppm of the substance led to slight irritation of the eyes, nose and throat. There is a report that the inhalation exposure to cats and mice and the oral exposure to rabbits caused narcotic effects at dose levels of equal to or less than the LD₅₀ value.

The effects are transient.

Pentyl acetate

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Rat $LD_{50} = 6,500 \text{ mg/kg}$ Acute toxicity (oral): Acute toxicity (dermal): Rabbit $LD_{50} = 8,359 \text{ mg/kg}$

In two rabbit skin irritation tests (the isomer mixture used as Skin corrosion/irritation:

the test substance): "slight stimulativeness" and "moderate erythema, slight dropsy, and slight scaling seven days after application". In addition, there is a report that "disappearance by volatilization of the remarkable rate of a study substance could be considered at the time of application" for the examination where repetitive application of the isomer mixture on human skin. And 197 subjects did not observe

irritation at all.

There are corneal injury in eye of rabbit, but it was mild and reversible, and the result of having applied the isomer mixture to the eye of the rabbit were also mild (2nd of ten steps of stimulative scales). Although effect on the eye of isomer mixture postexposure is also reported in humans, it is adapted by long run challenge.

In the inhalation exposure examination in humans, condition such as "nasal irritation" and "throat irritation" is seen immediately after, and the consciousness may fall by high concentrations. Moreover, the anesthetic actions is observed in inhalation exposure of the rat.

There is a statement that visual field constriction is reported by part of humans who received occupation exposure of the isomer mixtures and also neurotoxicity is occurred. Moreover, the histologically degeneration of the optic nerve is acknowledged in repeated exposure to the rabbit.

Geraniol

Serious eye damage/irritation:

STOT-single exposure:

STOT-repeated exposure:

Rat $LD_{50} = 3,600 \text{ mg/kg}$ Acute toxicity (oral): Rabbit $LD_{50} > 5,000 \text{ mg/kg}$ Acute toxicity (dermal):

In rabbit irritation test which expose three or four rabbits to Skin corrosion/irritation: 0.5 mL of this substance for four hours, these symptoms were observed: slight to moderate red spots and slight to moderate edema. These index of primary dermal irritation were 3.67, 3.33, and 2.92. In addition, in a human patch test, severe

irritation was observed at 32% concentration.

In Contact Dermatitis, this material is classified as contact Skin sensitization:

allergen.

In a rat acute toxicity test, these symptoms were observed: STOT-single exposure:

suppression and coma.

1-Hexanol

Skin corrosion/irritation:

Rat $LD_{50} = 4,000 \text{ mg/kg}$ Acute toxicity (oral):

This material is classified as "Acute Tox. 4: H302" in EU

CLP.

Acute toxicity (dermal): Rabbit $LD_{50} = 2,538 \text{ mg/kg}$

Rat $LD_{50} > 10.5 \text{ mg/L/4h}$

Acute toxicity (inhalation: dust/mist):

In a human patch test, the substance was applied to the skin for up to four hours. The irritation response was significantly lower than that of the positive control. In a rabbit test compliant with OECD TG 404, the substance was indicated to be "moderately irritating". With unknown doses and administration periods, the substance caused "moderate irritation" and "erythema and swelling like a first degree

In a rabbit test, the averaged score values 72 hours after Serious eye damage/irritation: application were 2 for corneal clouding, 1.25 for iritis, 2.5 for conjunctival redness, and 2.5 for chemosis, but these signs completely subsided within 21 days after application, the substance was considered to be moderately irritating, and in

> another rabbit test, a 5% solution caused severe eye erosion while a 1% solution still caused severe irritation.

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D-Limonene

Acute toxicity (oral): Rat $LD_{50} = 4,400 \text{ mg/kg}$ Acute toxicity (dermal): Rabbit $LD_{50} > 5,000 \text{ mg/kg}$

Skin corrosion/irritation: In humans who received patch tests, irritation lasted for 72

hours, and a 2-hour dermal exposure caused a burning, itching, aching, and purpuric rash. In addition, rabbit tests (OECD TG 404) indicated that the substance was ranked 3.5

out of 8 based on the Primary Dermal Irritation Index.

Skin sensitization: Humans applied with patch tests showed signs of sensitization

10 to 15 minutes after the application. Signs of sensitization were also observed in maximization tests using guinea pigs.

Ethanol

Acute toxicity (oral): Rat $LD_{50} = 6,200 \text{ mg/kg}$ Acute toxicity (dermal): Rabbit $LDL_0 = 20,000 \text{ mg/kg}$

Acute toxicity (inhalation: vapour): Rat $LC_{50} = 66,280$ ppmV (124.7 mg/L) Serious eye damage/irritation: Moderately irritating to rabbit eyes.

Carcinogenicity: IARC classified as Group 1. (ethanol in alcoholic beverage)

Reproductive toxicity:

There are numerous reports that fetal alcohol syndrome which

is characterized by growth deficiency, microcephaly, characteristic facial characteristics and mental retardation, was

observed in the children of alcoholic women.

STOT-single exposure:

By inhalation exposure to humans, the respiratory and eye irritant effects are reported. Severe intoxication is

characterized by marked muscular incoordination, blurred or double vision, stupor, hypothermia, vomiting and nausea, and

convulsions.

STOT-repeated exposure: Long-term consumption of large doses of alcohol causes toxic

effects in almost all organ systems. The most affected target organ is the liver; beginning with fatty degeneration, damage can progress via necrosis and fibrotic stages to liver cirrhosis.

Docusate sodium

Acute toxicity (oral): Rat $LD_{50} = approx. 2,000 \text{ mg/kg}$

Acute toxicity (dermal): Rabbit $LD_{50} > 10 \text{ g/kg}$

Skin corrosion/irritation: In rabbit irritation tests that exposure 0.5 mL of this substance,

the score at 24 hours later were 1.66 (red spots) and 2.5 (edema), and at 72 hours later were 1.66 (red spots) and 1.6 (edema). In this tests, necrosis and irreversible change were

not observed.

Serious eye damage/irritation: In rabbit irritation test that exposure 100 mg of this substance,

necrosis and irreversible change were not observed. This substance was irritating. In a rabbit test that expose 250µg,

mild irritation was reported.

Reproductive toxicity: In pregnant rat test, increase of resorption and malformation

of infant were reported. In three generation rats test mixed in feed (0, 0.5 or 1.0% mixed), the breast milk caused control of

weight gain and reduction of survival rate.

SECTION 12: Ecological information

12.1. Toxicity:

Information on product: No information

Information on ingredients:

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Benzyl acetate

Aquatic acute toxicity: Fish (*Oryzias latipes*) $96h LC_{50} = 4 mg/L$ Aquatic chronic toxicity: Fish (*Oryzias latipes*) 28d NOEC = 0.92 mg/L

Ethyl acetate

Aquatic acute toxicity: Fish (Fathead minnow) 96h LC₅₀ = 230 mg/L Crustacea (*Daphnia magna*) 24h LC₅₀ = 2,500 mg/L

Aquatic chronic toxicity: No information

Pentyl acetate

Aquatic acute toxicity: Crustacea (Brine shrimp) $24h LC_{50} = 53000microg/L$

Aquatic chronic toxicity: No information

Geraniol

Aquatic acute toxicity: Fish (Brown trout) 96h $LC_{50} = 2.6 \text{ mg/L}$

Aquatic chronic toxicity: No information

1-Hexanol

Aquatic acute toxicity: Fish (Fathead minnow) 96h $LC_{50} = 97.7 \text{ mg/L}$

Aquatic chronic toxicity: No information

D-Limonene

Aquatic acute toxicity: Crustacea ($Daphnia\ magna$) 48h EC₅₀ = 0.421 mg/L

Aquatic chronic toxicity: No information

Ethanol

Aquatic acute toxicity: Algae (*Chlorella*) 96h $EC_{50} = 1,000 \text{ mg/L}$

Crustacea (*Daphnia magna*) 48h EC₅₀ = 5,463 mg/L

Fish (Rainbow trout) 96h $LC_{50} = 11,200$ ppm

Aquatic chronic toxicity: Crustacea (*Ceriodaphnia dubia*) 10d NOEC = 9.6 mg/L

Docusate sodium

Aquatic acute toxicity: Crustacea (*Daphnia magna*) 48h EC₅₀ = 19.0 mg/L Fish (*Operius latines*) 96h LC₁₀ = 68.2 mg/L

Fish (*Oryzias latipes*) 96h $LC_{50} = 68.2 \text{ mg/L}$

Aquatic chronic toxicity: Crustacea (*Daphnia magna*) 21d NOEC = 7.03 mg/L

12.2. Persistence and degradability:

Information on product: No information

Information on ingredients:

Benzyl acetate

BOD: 95% (28days)

Ethanol

BOD: 89%

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Docusate sodium

BOD: 0%

12.3. Bioaccumulative potential:

Information on product: No information

Information on ingredients:

Pentyl acetate log Kow=2.3

Geraniol

log Kow = 3.47

12.4. Mobility in soil:

Information on product: No information

Information on ingredients:

No information

12.5. Results of PBT and vPvB assessment:

The product does not meet the PBT and vPvB criteria.

12.6. Other adverse effects:

No information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste in accordance with applicable local, regional and international regulations and standards.

When disposing, consult to a certificated waste trader or local offices if they deal with the waste.

Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.

Contents should be removed completely when dispose of empty containers.

SECTION 14: Transport information

14.1. UN number	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, n.o.s.
14.3. Transport hazard class(es)	3
14.4. Packing group	II
14.5. Environmental hazards	Not applicable

14.6. Special precautions for user

When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

Not applicable

SECTION 15: Regulatory information

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

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

15.2. Chemical safety assessment

Not conducted

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SECTION 16: Other information

Update history:

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References:

Information of DIA CHEMICAL CO., LTD.

NITE GHS classification results (2017)

ACGIH, American Conference of Governmental Industrial Hygienists (2016) TLVs and BEIs.

Relevant risk phrases of which do not appear elsewhere in this SDS

H226: Flammable liquid and vapour

H302: Harmful if swallowed

H315: Causes skin irritation

H332: Harmful if inhaled

H361: Suspected of damaging fertility or the unborn child

H370: Causes damage to organs

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic substance

POPs: Persistent Organic Pollutants STOT: Specific Target Organ Toxicity SVHC: Substances of Very High Concern

vPvB: Very Persistent and Very Bioaccumulative

[Disclaimer]

This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.