

## SAFETY DATA SHEET

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

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#### 1.1. Product identifier

**Product name:** GRACEMATE POPPY/STRAWBERRY

#### 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

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### SECTION 2: Hazards identification

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#### 2.1. Classification of the substance or mixture

**Classification in accordance with EC No 1272/2008:**

Flam. Liq. 2: 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

#### 2.2. Label elements

**In accordance with EC No 1272/2008:**

**Pictogram**



**Signal word**

**Hazard Statements**

**Danger**

H225: Highly flammable liquid and vapour  
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  
H372: Causes damage to organs through prolonged or repeated exposure  
H373: May cause damage to organs through prolonged or repeated exposure

**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.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

[Emergency response]

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

[Storage]

P405: Store locked up.

**2.3. Other hazards**

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

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

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**3.1. Substances** Not applicable

**3.2. Mixtures**

**Product Name:** GRACEMATE POPPY/STRAWBERRY

**Information on ingredients:**

Chemical name	CAS No.	EC No.	Index No.	REACH Registration No.*	Concentration (wt %)	Classification**	Specific Concentration limits
Ethanol	64-17-5	200-578-6	603-002-00-5	-	58.5	Flam. Liq. 2: 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	
Isopentyl acetate	123-92-2	204-662-3	607-130-00-2	-	0.1 – 0.5	Flam. Liq. 3: H226 Skin Irrit. 2: H315 Eye Irrit. 2: H319 STOT SE 3: H335 STOT SE 3: H336 STOT RE 1: H372	-
Ethyl acetate	141-78-6	205-500-4	607-022-00-5	-	0.1 – 0.5	Flam. Liq. 2: H225 Eye Irrit. 2: H319 Acute Tox. 4: H332 STOT SE 3: H335 STOT SE 3: H336	-
Butyl acetate	123-86-4	204-658-1	607-025-00-1	-	0.01 – 0.1	Flam. Liq. 2: H225 Eye Irrit. 2: H319 STOT SE 3: H335 STOT SE 3: H336	-
Benzyl alcohol	100-51-6	202-859-9	603-057-00-5	-	0.01 – 0.1	Acute Tox. 4: H302 Acute Tox. 4: H312 Eye Irrit. 2: H319 Acute Tox. 3: H331	-
Benzyl benzoate	120-51-4	204-402-9	607-085-00-9	-	0.01 – 0.1	Acute Tox. 4: H302 Aquatic Chronic 2: H411	-
Sorbitan monooleate, ethoxylated	9005-65-6	500-019-9	-	-	5	-	-
Water	7732-18-5	231-791-2	-	-	27	-	-

\* Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in later.

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

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## SECTION 4: First aid measures

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

Causes serious eye irritation  
May cause respiratory irritation  
May cause drowsiness or dizziness  
May cause cancer  
May damage fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure  
May cause damage to organs through prolonged or repeated exposure

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

No information

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## SECTION 5: Firefighting measures

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### 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

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### 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

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

## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

#### Protective measures:

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

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

**Acceptable concentration (exposure limit, biological exposure index)**

EU IOELV-8hr (2000)	50 ppm (Isopentylacetate)
EU IOELV-Short term (2000)	100 ppm (Isopentylacetate)
UK HSE WELs-8hr TWA (2011)	1,000 ppm (Ethanol) 200 ppm (Ethyl acetate) 150 ppm (Butyl acetate)
UK HSE WELs-Short term (2011)	400 ppm (Ethyl acetate) 200 ppm (Butyl acetate)
ACGIH TLV-TWA (2016)	50 ppm (Isopentyl acetate) 400 ppm (Ethyl acetate) 50 ppm (Butyl acetates, all isomers)
ACGIH TLV-STEL (2016)	1,000 ppm (Ethanol) 100 ppm (Isopentyl acetate) 150 ppm (Butyl acetates, all isomers)

**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.

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

**9.2. Other information**

No information

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## SECTION 10: Stability and reactivity

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### 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

Oxidizing agents

### 10.6. Hazardous decomposition products

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

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## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

Information on product:

No information

Information on ingredients:

Ethanol

Acute toxicity (oral):

Rat LD<sub>50</sub> = 6,200 mg/kg

Acute toxicity (dermal):

Rabbit LD<sub>0</sub> = 20,000 mg/kg

Acute toxicity (inhalation: vapour):

Rat LC<sub>50</sub> = 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.

Isopentyl acetate

Acute toxicity (oral):	Rat LD <sub>50</sub> = 16,600 mg/kg
Skin corrosion/irritation:	In the rabbit skin irritation test, "slight irritation" was observed. In addition, there is a report that "Disappearance of the test substance of a remarkable rate can be because of volatile at the time of application" on repetitive application test of this substance on human skin. And 197 subjects did not observe irritation at all.
Serious eye damage/irritation:	The result of an eye irritation examination of the rabbit which used the isomer mixture as the test substance is mild (2nd of ten steps of stimulative scales), and this substance or an isomer mixture by inhalation exposure irritation is reported to the eye or the conjunctiva in humans.
STOT-single exposure:	By this product or inhalation of a isomer mixture exposure, in humans, the upper respiratory conditions, such as nose, pharynx, respiratory tract, etc. is mainly reported, and there is also report that it have strong irritation especially an respiratory tract, and respiratory irritation was suggested. Furthermore, the anesthetic actions was observed in rat, and moderate central nerve inhibition in cat, and drowsiness in dog was reported.
STOT-repeated exposure:	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.
Ethyl acetate	
Acute toxicity (oral):	Rat LD <sub>50</sub> = 4,940 mg/kg
Acute toxicity (dermal):	Rabbit LD <sub>50</sub> > 18,000 mg/kg
Acute toxicity (inhalation: vapour):	Rat LC <sub>50</sub> = 3,658ppmV
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 LD <sub>50</sub> value. The effects are transient.
Butyl acetate	



Acute toxicity (oral): Rat LD<sub>50</sub> > 3,200 mg/kg  
Acute toxicity (dermal): Rabbit LD<sub>50</sub> > 5,000 mg/kg  
Serious eye damage/irritation: In a test where 0.1 mL undiluted substance was applied into the eyes of rabbits, maximum irritation was observed at 24-hour after application, at which time the mean scores were <1 for corneal opacity, 0 for iris, 1 for conjunctivae redness and <1 for chemosis. The MMAS was less than 30 and the effects were almost reversed within 7 days. In other rabbit tests, results of no irritating or mild irritating were reported.  
STOT-single exposure: This substance causes respiratory tract irritation. In human, by expose of vapour, these symptoms were observed; headache, nausea. In case of high concentration, dizziness, difficult breathing, unconsciousness and weakness were observed. In a rat inhalation test, coordination disturbance, labored breathing and nesthetic action were observed at 1.3 mg/L exposure. In another rat and mouse oral test, central nervous system depression, coordination disturbance, weakness and hypothermia were reported at 10,736 mg/kg exposure.

#### Benzyl alcohol

Acute toxicity (oral): Rat LD<sub>50</sub> = 1,230 mg/kg  
Acute toxicity (dermal): Rabbit LD<sub>50</sub> = 2,000 mg/kg  
Acute toxicity (inhalation: vapour): Rat LC<sub>50</sub> = 12.5 mg/L/4h  
Serious eye damage/irritation: The results of eye irritation tests using rabbits (OECD TG 405) showed that the substance was moderately irritating.

#### Benzyl benzoate

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Acute toxicity (oral): Rat LD<sub>50</sub> = 1,880 mg/kg  
Acute toxicity (dermal): Rat LD<sub>50</sub> = 4.46 g/kg  
Rabbit LD<sub>50</sub> = 4 g/kg

### SECTION 12: Ecological information

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#### 12.1. Toxicity:

Information on product: No information

#### Information on ingredients:

##### Ethanol

Aquatic acute toxicity: Algae (*Chlorella*) 96h EC<sub>50</sub> = 1,000 mg/L  
Crustacea (*Daphnia magna*) 48h EC<sub>50</sub> = 5,463 mg/L  
Fish (Rainbow trout) 96h LC<sub>50</sub> = 11,200ppm  
Aquatic chronic toxicity: Crustacea (*Ceriodaphnia dubia*) 10d NOEC = 9.6 mg/L

##### Isopentyl acetate

Aquatic acute toxicity: Crustacea (*Daphnia magna*) 24h EC<sub>50</sub> = 205 mg/L  
Aquatic chronic toxicity: No information

##### Ethyl acetate

Aquatic acute toxicity: Fish (Fathead minnow) 96h LC<sub>50</sub> = 230 mg/L  
Crustacea (*Daphnia magna*) 24h LC<sub>50</sub> = 2,500 mg/L  
Aquatic chronic toxicity: No information

##### Butyl acetate

Aquatic acute toxicity: Fish (Fathead minnow) 96h LC<sub>50</sub> = 18 mg/L  
Aquatic chronic toxicity: Algae (*Scenedesmus*) 72h EC<sub>10</sub> = 296 mg/L

Benzyl alcohol

Aquatic acute toxicity: Fish (Fathead minnow) 96h LC<sub>50</sub> = 460 mg/L  
Crustacea (*Daphnia magna*) 48h EC<sub>50</sub> = 230mg/L  
Algae 72h EC<sub>50</sub> = 770 mg/L  
Aquatic chronic toxicity: No information

Benzyl benzoate

Aquatic acute toxicity: Crustacea (*a species of Grammaridea*) 96h LC<sub>50</sub> = 4.8 mg/L  
Aquatic chronic toxicity: No information

**12.2. Persistence and degradability:**

Information on product: No information

Information on ingredients:

Ethanol  
BOD: 89%

Butyl acetate  
BOD: 98%  
Benzyl benzoate  
BOD: 90%

**12.3. Bioaccumulative potential:**

Information on product: No information

Information on ingredients:

Butyl acetate  
log Kow = 1.78  
Benzyl benzoate  
log Pow = 3.97

**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

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**SECTION 13: Disposal considerations**

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**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.

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**SECTION 14: Transport information**

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<b>14.1. UN number</b>	1993
<b>14.2. UN proper shipping name</b>	FLAMMABLE LIQUID, n.o.s.
<b>14.3. Transport hazard class(es)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	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

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**SECTION 15: Regulatory information**

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**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**

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**Update history:**

Date of issue: 12<sup>th</sup> May, 2017

**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  
H312: Harmful in contact with skin.  
H315: Causes skin irritation  
H331: Toxic if inhaled  
H332: Harmful if inhaled  
H411: 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.