

Safety Data Sheet (S D S)

Execution Date Oct/27/2016
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1. IDENTIFICATION

PRODUCT NAME	華の精
MANUFACTURER'S NAME	PALACE CHEMICAL CO., LTD.
DEPARTMENT	No. 3 RESEARCH SECTION., R&D DIVISION
MANUFACTURING DEPT	No. 3 RESEARCH SECTION., R&D DIVISION
ADDRESS	1-11-16 FUKUURA KANAZAWA-KU YOKOHAMA 236-0004 JAPAN
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EMERGENCY PHONES	R&D DIVISION +81-45-784-7245
PRODUCT USE/RESTRICTION	CUT FLOWER PRESERVATION
PRODUCT REFERENCE NUMBER	68150503-5

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICOCHEMICAL HAZARDS

CORROSIVE TO METALS	Classification not possible
FLAMMABLE LIQUIDS	Not classified
FLAMMABLE SOLIDS	Not objects to classify

HEALTH HAZARDS

ACUTE TOXICITY (Oral)	Category5
ACUTE TOXICITY (Dermal)	Not classified
ACUTE TOXICITY (Gases)	Not objects to classify
ACUTE TOXICITY (Vapours)	Not classified
ACUTE TOXICITY (Dusts and Mists)	Not classified
SKIN CORROSION/IRRITATION	Category3
SERIOUS EYE DAMAGE/EYE IRRITATION	Not classified
RESPIRATION SENSITIZATION	Not classified
SKIN SENSITIZATION	Category1
GERM CELL MUTAGENICITY	Not classified
CARCINOGENICITY	Not classified
REPRODUCTIVE TOXICITY	Not classified
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	Not classified(THE WHOLE BODY)

SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	Not classified(THE WHOLE BODY)
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ASPIRATION HAZARD	Classification not possible
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ENVIRONMENT HAZARDS

HAZARD TO THE AQUATIC ENVIRONMENT (ACUTE)	Classification not possible
HAZARD TO THE AQUATIC ENVIRONMENT (CHRONIC)	Classification not possible
HAZARDOUS TO THE OZONE LAYER	Classification not possible

LABEL ELEMENTS

PICTOGRAMS



SIGNAL WORD

Warning

HAZARD INFORMATION

May be harmful if swallowed (oral)
Causes mild skin irritation
May cause an allergic skin reaction

PRECAUTIONARY STATEMENTS

SECURITY PRECAUTION

- Refer to SDS before use.
- Keep cool. Protect from sunlight.

- Keep the container tightly closed.
- Keep only in original container.
- Avoid breathing dust, fume, gas, mist, vapor and spray.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.

- Wash hands thoroughly after handling.
- Wear protective gloves specified by manufacturer, supplier or regulating authorities.

FIRST AID MEASURES

- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN: Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
- If skin irritation or rash occurs, get medical advice and attention.
- Wash contaminated clothing before reuse.
- Call a doctor if you feel unwell.

STORAGE

- Store in a well-ventilated place keeping cool.

DISPOSAL

- Dispose of contents and container in accordance with local, regional and national regulations (to be specified).

3. COMPOSITION/INFORMATION ON INGREDIENTS

SINGLE SUBSTANCE/MIXTURE	Mixture	
COMMON NAME		
COMPOSITION AND CONTENT	Water	50-60%
	Additives	40-50%
CHEMICAL PROPERTIES (Chemical formula)	Can not be identified	

CAS No. Because trade secrets can not be described

GAZETTE NOTICE REFERENCE NUMBER (JAPAN) Because trade secrets can not be described

HAZARDOUS INGREDIENTS

INDUSTRIAL SAFETY AND HEALTH ACT (ARTICLE 57-2) [JAPAN]

Substances	Cabinet Order No.	Content (%)	CAS No.
—	—	—	—

INDUSTRIAL SAFETY AND HEALTH ACT (ARTICLE 57) [JAPAN]

Substances	Cabinet Order No.	Content (%)	CAS No.
—	—	—	—

PRTR LAW [JAPAN]

Substances	Cabinet Order No.	Application	Content (%)	CAS No.
—	—	—	—	—

4. FIRST AID MEASURES

- IF IN EYES : Immediately wash with plenty of water carefully for several minutes, get medical attention if pain or irritation persists.
: In cases that contact lenses is used, remove contact lenses and continue to wash eyes.
- IF INHALED : Remove to fresh air. Cover the body with towels to keep warm, rest in silence, get medical treatment if necessary.
- IF ON SKIN : Remove or take off immediately all contaminated clothing and shoes, wash the attached parts with soap and water, and flush with plenty of wa

ter.

: Get medical treatment if you experience skin irritation or inflammation.

IF SWALLOWED

: Gargle with water. Drink plenty of water, vomit and get medical treatment immediately if possible.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING AGENT

: Dry chemicals, foam extinguishing agents, carbon dioxide, dry sand, fog-like liquid reinforcement.

PROTECTION OF THE FIREMAN

: In fire-extinguishing activity, should wear protective equipment and extinguish the fire from windward.

SPECIFIC HARMFUL & DANGEROUS

: Non-flammable for containing water, but flammable if the water evaporated.

6. ACCIDENTAL RELEASE MEASURES

NOTICE TO THE HUMAN BODY

: Operators should wear protective equipment.

: Dispose of the deposits and waste according to the related regulations.

NOTICE TO THE ENVIRONMENT

: Take special care not to have it emitted into either rivers or sewer.

CLEANUP METHOD

: Recover with earth, sand and waste cloths when in small amount, and wipe thoroughly with waste cloths.

7. HANDLING AND STORAGE

HANDLING :

NOTES

: Do not use except intended purpose.

: Do not adhere to clothes can be stained.

: Please keep it out of the reach of children in a cool place away from direct sunlight and make sure to close the lid after use.

: Do not use metallic container to become eroded.

SAFETY HANDLING PRECAUTIONS

: Wear proper protective equipment to avoid inhaling or contacting with eyes and skin.

: Refer to SDS before use.

: Do not touch, inhale, or swallow.

: Wash hands thoroughly after handling.

STORAGE :

Technical measures, mixed touch banned substances, packaging materials

: Store in a well-ventilated and cool place. Keep the container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

STANDARD CONTROL CONCENTRATION

: Not set

TOLERANCE CONCENTRATION

: Not set

PROTECTIVE DEVICE

: Use the personal protective clothing and full face mask whenever necessary.

: Use personal protective equipment if needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE FORM

: LIQUID

COLOR

: Colorless

ODOUR

: In odor

pH

: 2.3

MELTING POINT/FREEZING POINT (°C)

: No data

POUR POINT (°C)	: No data
BOILING POINT (°C)	: No data
FLASH POINT (°C)	: No flash point
DENSITY (g/cm ³) 15°C	: 1.18
SOLUBILITY FOR WATER	: Soluble
SOLUBILITY FOR ORGANIC SOLVENT	: No data
TEMPERATURE OF DECOMPOSITION (°C)	: No data
EXPLOSIVE RANGE (EXPLOSION LIMIT Estimate vol%)	: Lower limit : No data
(EXPLOSION LIMIT Estimate vol%)	: Upper limit : No data
OCTANOL/WATER PARTITION COEFFICIENT	: No data
SPONTANEOUS IGNITION TEMPERATURE (°C)	: No data
EVAPORATION RATE (VOLATILE)	: No data
VAPOR PRESSURE (kPa)	: No data

10. STABILITY AND REACTIVITY

REACTION STABILITY

: Avoid the contact with strong oxidant.

11. TOXICOLOGICAL INFORMATION

HAZARD OF PRODUCT

ACUTE TOXICITY (Oral)

: Category5

ACUTE TOXICITY Estimate (Oral) LD50 (mg/kg) : 4700

ACUTE TOXICITY (Dermal)

: Not classified

ACUTE TOXICITY Estimate (Dermal) LD50 (mg/kg) : 5000<

ACUTE TOXICITY (Gases)

: Not objects to classify

Appearance form is not a gas.

ACUTE TOXICITY (Vapours)

: Not classified

ACUTE TOXICITY Estimate (Vapours) LC50 (mg/l) : 50<

ACUTE TOXICITY (Dusts and Mists)

: Not classified

ACUTE TOXICITY Estimate (Dusts and Mists) LC50 (mg/l)
: 12<

SKIN CORROSION/IRRITATION

: Category3

Include the following materials
(Category1), (Category2)

SERIOUS EYE DAMAGE/EYE IRRITATION

: Not classified

For the concentration of the cut-off value

RESPIRATION SENSITIZATION

: Not classified

For the concentration of the cut-off value

SKIN SENSITIZATION

: Category1

Include the following materials
(Category1)

GERM CELL MUTAGENICITY

: Not classified

For the concentration of the cut-off value

CARCINOGENICITY

: Not classified

For the concentration of the cut-off value

REPRODUCTIVE TOXICITY

: Not classified

For the concentration of the cut-off value

SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE

: THE WHOLE BODY

Not classified

For the concentration of the cut-off value

SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE

: THE WHOLE BODY

Not classified

For the concentration of the cut-off value

ASPIRATION HAZARD

: Classification not possible

No data

12. ECOLOGICAL INFORMATION

HAZARD OF PRODUCT

TOXICITY : No data
PERSISTENCE AND DEGRADABILITY : No data
BIOACCUMULATIVE POTENTIAL : No data
MOBILITY IN SOIL : No data

13. DISPOSAL CONSIDERATION

RESIDUAL WASTE

: Do not release used water for cleansing into ground or drain.
: Burn in accordance with the industrial waste processing standards.
: Companies should dispose of the industrial waste by itself, or subcontracting to industrial waste processing companies certified by state government, or local public body.
: No dumping.
: Avoid inhaling smoke when fighting fire for the burning gas contains toxic gases such as carbon monoxide, carbon dioxide, sulfur oxides, chlorine gas, nitrogen compounds, phosphate compounds and others.

14. TRANSPORT INFORMATION

INTERNATIONAL LAW

: Follow the IATA rules when transporting by air and IMDG when sea.

DOMESTIC LAW

: Transfer with vessels and methods in accordance with the following relevant domestic laws.

LAND

: The Fire and Disaster Management Act Nonhazardous Material

MARINE

: SHIP SAFETY ACT[JAPAN] Nonhazardous Material In a separate transport and bulk transport

AVIATION

: CIVIL AERONAUTICS ACT[JAPAN] Nonhazardous Material

UN CLASSIFICATION

: Not applicable

UN NO.

: Not applicable

NOTES

: Ensure there is no leakage, collapse, falling or damage when embarking.

SPECIFIC SAFETY MEASURES AND CONDITIONS FOR TRANSPORT

: Before transporting, make sure the container has no damage, corrosion or leakage.
: Load with care so that there's no turning over, falling down or any damages, and make sure that there'll be no collapses.
: Package, display and transfer in accordance with applicable laws.

15. REGULATORY INFORMATION

THE FIRE AND DISASTER MANAGEMENT ACT[JAPAN]

: The Fire and Disaster Management Act Nonhazardous Material

INDUSTRIAL SAFETY AND HEALTH ACT(ARTICLE 57-2) [JAPAN]

: NOT APPLICABLE

INDUSTRIAL SAFETY AND HEALTH ACT (ARTICLE 57) [JAPAN]

: NOT APPLICABLE

INDUSTRIAL SAFETY AND HEALTH ACT (DANGEROUS SUBSTANCES) [JAPAN]

: NOT APPLICABLE

ORDINANCE ON PREVENTION OF ORGANIC SOLVENT POISONING[JAPAN]

: NOT APPLICABLE

ORDINANCE ON PREVENTION OF HAZARDS DUE TO SPECIFIED CHEMICAL SUBSTANCES[JAPAN]

: NOT APPLICABLE

PRTR LAW[JAPAN]

: NOT APPLICABLE

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW[JAPAN]

: NOT APPLICABLE

ACT ON THE EVALUATION OF CHEMICAL SUBSTANCES AND REGULATION OF THEIR MANUFACTURE, ETC. [JAPAN]

: NOT APPLICABLE

WASTE MANAGEMENT AND PUBLIC CLEANSING LAW[JAPAN]

: INDUSTRIAL WASTE REGULATIONS (SPREAD, RUNOFF BAN)

16. OTHER INFORMATION

REFERENCE

- ACGIH (2008)
- NATIONAL INSTITUTE OF TECHNOLOGY AND EVALUATION AGENCY GHS CLASSIFICATION RESULTS DATABASE

- SDS OF RAW MATERIALS
- JAPAN SOCIETY OF OCCUPATIONAL HEALTH 「OCCUPATIONAL EXPOSURE LIMITS」
- GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)

RESPONSE SECTION FOR ABOVE INFORMATION

Please inquire of section of "1. Identification".

This product safety data sheet is based on the material information. Therefore, it is sometimes revised new knowledge.

When you treat this product, consult this data sheet and try to do according to the actual state under possibility for you.

This data sheet is not the guarantee of the safety and the quality.

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