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REVISION DATE : Feb 24, 2016
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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME : POLVOLIDE
PRODUCT NO. : 799420043
MANUFACTURER : Soda Aromatic Co., Ltd.
ADDRESS : 2-2-1, Nihonbashi Horidomecho, Chuo-ku, Tokyo 103-8366, Japan
DEPARTMENT : International Sales Department
PHONE : +81-3-5645-7347

2. HAZARDS IDENTIFICATION

【GHS Classification】

PHYSICAL HAZARDS

FLAMMABLE LIQUIDS : Not classified

HEALTH HAZARDS

ACUTE TOXICITY(ORAL) : Classification not possible

ACUTE TOXICITY(DERMAL) : Classification not possible

ACUTE TOXICITY(INHALATION) : Classification not possible

SKIN CORROSION/IRRITATION : Classification not possible

SERIOUS EYE DAMAGE/EYE IRRITATION : Classification not possible

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Category 1B

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY
-SINGLE EXPOSURE : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY
-REPEATED EXPOSURE : Classification not possible

ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

ACUTE AQUATIC TOXICITY : Classification not possible

CHRONIC AQUATIC TOXICITY : Classification not possible

【GHS Labeling】

Symbol



Signal ward

·Warning

Hazard statement

·May cause an allergic skin reaction

Precautionary statement

- Read label before use.
- Wear protective gloves/eye protection etc.
- Wash hands thoroughly after handling.
- If on skin or clothing : Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention
- Store in tightly sealed and closed containers in a cool and well-ventilated place. Protect from light.
- Dispose of contents/container as industrial wastes in according the regulation adequately.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	: Substance
Common name	: POLVOLIDE
Chemical name	: 12-Methyl-14-tetradecanolide
Content(%)	: >98%
Formula	: C 1 5 H 2 8 O 2
Molecular weight	: 2 4 0 . 3 8
C A S . N O	: 8 6 8 8 4 6 - 5 8 - 6
E I N E C S N O .	:
T S C A	: Not registered

4. FIRST-AID MEASURES

Skin: To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any symptoms develop.

Eye: Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

Ingestion: If swallowed, do not induce vomiting. Rinse mouth with water. Get immediate medical attention.

Inhalation: Move the exposed person to fresh air. Get medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media Recommended: Carbon dioxide special liquid or dry powder extinguishers.
Usable: Foam or halon extinguishers.
Inadvisable: Direct water jet.

unusual fire and explosion hazards:

Closed containers may build up pressure at elevated temperatures.

If possible, containers should be cooled with a water spray.

6. ACCIDENTAL RELEASE MEASURES

To avoid a possible contamination of the environment, contain spilled material. Cover with an inert, inorganic, non-combustible absorbent material, sweep up and remove to an approved disposal container.

Avoid open flames or other sources of ignition. Avoid inhalation of vapours.

7. HANDLING AND STORAGE

Handling:

- Measures should be taken to prevent materials from being splashed into the eyes or on the skin. This should include the wearing of eye shields and protective clothing.
- Smoking should not be permitted in areas where they are handled.
- Materials used for cleaning up spillages should be disposed of promptly, preferably by incineration, as cases of spontaneous combustion of certain product soaked rags have been reported.
- Maintain adequate air ventilation in the working area.

Storage:

To be stored in tightly sealed and preferably full containers in a cool, dry and ventilated location.

Protect from light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory protection : In well ventilated areas respiration protection is not normally required, in confined, poorly ventilated areas, it may be required.
- Hand protection : The use of chemical resistant gloves is recommended.
- Eye protection : In general, the use of safety glasses is recommended.
- Skin protection : Protective clothing (work clothing with long sleeves) is recommended.
- Ventilation : Provide adequate ventilation, use local exhaust fan if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Color : Colorless to slightly yellow
- Odor : Characteristic odor
- pH : no data available
- Boiling point, initial boiling point and boiling range : no data available
- Flash point(TCC) : 95.0°C<
- Flash point(COC) : 150.0°C
- Flammability limit - Upper/Lower : no data available
- Vapour pressure : no data available
- Vapour density : no data available
- Specific gravity : 0.950~0.960(d20/20)
- Solubility : Insoluble in water
- PARTITION COEFFICIENT (N-Octanol/Water) : no data available
- Auto ignition : no data available
- Decomposition temperature : no data available
- Melting point : no data available

10. STABILITY AND REACTIVITY

- Conditions to avoid : Excessive heat, open flames or other sources of ignition.
- Hazardous decomposition products : Not data available.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : >2,000 mg/kg(rat)
- Ames test : Negative
- Skin Sensitisation: Local Lymph Node Assay : EC₃ =79%: Sensitizer Category 1B
(mouse, topical application to the dorsal surface of the ear)

Result. The Stimulation Index expressed as the mean radioactive incorporation for each treatment group divided by the mean radioactive incorporation of the vehicle control group are as follows:

Concentration (% v/v) in acetone/olive oil	Stimulation Index	Result
25	1.76	Negative
50	2.19	Negative
100	3.60	Positive

The concentration of test item expected to cause a 3 fold increase in ³HTdR incorporation (EC₃ value) was calculated to be 79%.

12. ECOLOGICAL INFORMATION

The Information of the product and main ingredients(GHS Classification) : See Annex.

13. DISPOSAL CONSIDERATIONS

Burn in approved incinerator in accordance with applicable federal, state/provincial, and local regulation.

14. TRANSPORT INFORMATION

UN Class : Not classified
UN No. : NOT APPLICABLE
Marine pollutant : Not applicable

15. REGULATORY INFORMATION

Globally Harmonized System of Classification and Labelling of Chemicals(GHS) -Fourth revised edition.

16. OTHER INFORMATION

Cited documents

- 1) Journal of Japan Society for Occupational Health
- 2) Threshold Limit Values and Biological Exposure Indices(ACGIH)
- 3) National Institute of Technology and Evaluation(NITE)GHS Classification Result
- 4) Handbook for GHS Classification of Flavor & Fragrance / JFFMA
- 5) The indication guideline of flavor & fragrance / JFFMA
- 6) IFRA-IOFI Labeling Manual

The information and recommendation contained in the data sheet represent, to the best of soda's knowledge and belief, an accurate and reliable representation as to the known data for this material. The data has been obtained from a number of sources and soda cannot guarantee its accuracy, reliability and completeness nor can soda assume any liability for loss or damage arising out of the use of this data. It is the user's responsibility to evaluate this information in a prudent manner and to use it in a manner that inconsistent for its particular purpose.

OANNEX

TRADE NAME : POLVOLIDE

PHYSICAL HAZARDS for the Product

Hazard items	GHS Classification for the Product
FLAMMABLE LIQUIDS	Not classified

Hazard items	GHS Classification for the Product	GHS Classification for Main Ingredients	
		12-Methyl-14-tetradecanolide	
ACUTE TOXICITY(ORAL)	Classification not possible	Classification not possible	
ACUTE TOXICITY(DERMAL)	Classification not possible	Classification not possible	
ACUTE TOXICITY(INHALATION)	Classification not possible	Classification not possible	
SKIN CORROSION/IRRITATION	Classification not possible	Classification not possible	
SERIOUS EYE DAMAGE/EYE IRRITATION	Classification not possible	Classification not possible	
RESPIRATORY SENSITIZATION	Classification not possible	Classification not possible	
SKIN SENSITIZATION	Category 1B	Category 1B	
GERM CELL MUTAGENICITY	Classification not possible	Classification not possible	
CARCINOGENICITY	Classification not possible	Classification not possible	
REPRODUCTIVE TOXICITY	Classification not possible	Classification not possible	
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	Classification not possible	Classification not possible	
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE(Category 3)	Classification not possible	Classification not possible	
SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	Classification not possible	Classification not possible	
ASPIRATION TOXICITY	Classification not possible	Classification not possible	
ACUTE AQUATIC TOXICITY	Classification not possible	Classification not possible	
CHRONIC AQUATIC TOXICITY	Classification not possible	Classification not possible	

Hazard items	GHS Classification for Main Ingredients		
ACUTE TOXICITY(ORAL)			
ACUTE TOXICITY(DERMAL)			
ACUTE TOXICITY(INHALATION)			
SKIN CORROSION/IRRITATION			
SERIOUS EYE DAMAGE/EYE IRRITATION			
RESPIRATORY SENSITIZATION			
SKIN SENSITIZATION			
GERM CELL MUTAGENICITY			
CARCINOGENICITY			
REPRODUCTIVE TOXICITY			
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE			
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE(Category 3)			
SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE			
ASPIRATION TOXICITY			
ACUTE AQUATIC TOXICITY			
CHRONIC AQUATIC TOXICITY			