

Material Safety Data Sheet

1. Identification of Substance /Preparation and Company

- 1.1 Product Name : Anti-Static Agents ASA-866
- 1.2 Another Name : -
- 1.3 Recommend Usage : Anti-static agents
- 1.4 Information of Manufacturer or Supplier :
GRACESS INTERNATIONAL CO., LTD. /
29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan /(02)2673-3998
- 1.5 Emergency Phone/Fax : (02)26973-3998/(02)2673-3995

2. Hazard Identification Data

- 2.1 Hazard Classification : -
- 2.2 Label : -
Symbol : -
Caution : -
Hazard Warning : causes slight irritation to the eyes and is harmful to humans if swallowed.
- 2.3 Other Hazards : -

3. Composition/ Information of Ingredients

Mixture : -		
Chemical name	CAS Number	%
Zwitterionic surfactant	-	10~12%
Water	7732-18-5	89~91%

4. First Aid Measure

- 4.1 First aid measure:
Skin: take off contaminated clothing and rinse contact area with large amount of water.
Eye: wash eye with running water at least for 15 min. immediately and thoroughly. Consult a doctor.
Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
- 4.2 The most harmful effect:
- 4.3 Protection of first-aid person : -
- 4.4 Suggestion to doctors: treat symptomatically and supportively.

5. Firefighting measure

- 5.1 Suitable extinguishing media: Carbon dioxide, chemical dry powder, foam, water spray.
- 5.2 Special hazards from fire fight : -
- 5.3 Specific extinguishing methods: -
- 5.4 Protection for fire fighters: -

6. Accidental release measure

- 6.1 Personal precaution : -
- 6.2 Environmental protection : -
- 6.3 Cleaning method : For a small amount of spilled pollutants, add an absorbent (select soil if there is no other suitable substance), collect the pollutants and place them in a container for processing. For large leaks, build a cofferdam to prevent outflow and transfer it to a closed container for disposal.

7. Handling and storage

- 7.1 Handling : keep ventilated in operation place.
- 7.2 Storage : avoid direct sunlight on containers and avoid sources of ignition.

8. Exposure controls/personal protection

- 8.1 Engineering controls : -
- 8.2 Controls parameter :
PC-TWA/PC-STEL/PC-MAC: -/ -/ -/-
- 8.3 Personal protective equipment :
Inhale: --
Hand protection: safety glove
Eye protection: safety goggle
Skin and body protection: -
- 8.4 Hygiene measures : Take off contaminated clothing as soon as No smoking and food.

9. Physical and chemical properties

- | | | | |
|--------------------------------|-------------------------|---------------------------------|--------------------------|
| • Appearance : | opaque off-white liquid | • Solid content (%) : | |
| • Color : | | • Ionic : | |
| • Odor : | | • PH value : | 6~7 |
| • Flash Point (Closed cup) : | >100°C closed-cup | • Boiling Point/Boiling Range : | |
| • Flammability(Solid, Gas) : | non | • Explosion limits : | |
| • Decomposition temperature : | | • Vapor density : | |
| • Autoignition temperature : | | • Solubility : | Easy to soluble in water |
| • Vapor pressure (25°C): | | • Chemical reactivity : | |
| • Proportion : | | • Evaporation Rate : | |

10. Stability and Reactivity

- 10.1 Stability : Stable.
- 10.2 Hazardous reactions under special conditions:
- 10.3 Avoidance: avoid sources of ignition, and direct sunlight on the container.
- 10.4 Avoidant materials: strong acid, strong alkali.
- 10.5 Hazard decomposition: -

11. Toxicological Information

11.1 Exposure routes: inhalation, ingestion, eyes, and skin contact.

11.2 Symptom: -

11.3 Acute toxicity: -

11.4 Chronic or long-term toxicity: -

12. Ecological Information

12.1 Ecological toxicity : -

12.2 Persistence and interpretation: -

12.3 Bioaccumulation : -

12.4 Mobility in soil: -

12.5 Other adverse effects: -

13. Disposal Considerations

Disposal methods:

13.1 Incineration processing.

13.2 The waste after incineration should be disposed of in accordance with regulations or entrusted to a qualified operator.

14. Transport Information

14.1 UN No. : -

14.2 International transport classification: -

14.3 Classification of transport hazards: -

14.4 Packing group : -

14.5 Special transport way and precaution: -

14.6 Marine Pollutant (Yes / No) : No

15. Regulatory Information

Suitable regulations:

<Labor Safety and Health Law> General rules for dangerous and harmful substances

16. Other Information

Form Maker	GRACESS INTERNATIONAL CO., LTD. 29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan / (02)2673-3998
Date	18/09/2019

LIMITED WARRANTY INFORMATION – PLEASE READ BEFORE ANY APPLICATION:

- The data presented in this brochure are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt.
- We reserve the right to alter product constants within the scope of technical progress or new developments.
- The recommendations made in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used.
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