

## PRODUCT BACKGROUNDER

### Brine Solution

**Important!** For detailed information on this product and emergency measures, obtain the Material Safety Data Sheet ([MSDS](#))/ Safety Data Sheet ([SDS](#)). In the case of an emergency, please call our 24-hour hotline at 1-800-561-6682 or 1-403-314-8767.

May also be called: salt water, brine recycle stream, sodium chloride solution

#### Material/Substance Use:

- This material is water with 13-26% dissolved salt. It is generated from the ongoing operation of underground hydrocarbon storage caverns in the Sarnia, Ontario area.
- This solution is shipped by pipeline from NOVA Chemicals' Corunna, Ontario to a Michigan salt manufacturer.

#### Characteristics and Safe Handling:

- Material is classified in workplaces as possibly irritating and is not regulated in transportation.
- Material is a stable, clear to cloudy white liquid with no noticeable odour.
- Material is not flammable and will not burn.
- Airborne mists are corrosive.
- Any release to land or water must be isolated, contained, and/or cleaned up by properly trained and equipped personnel.

#### Health and Safety Information:

- Wear all recommended personal protective equipment if any contact with this material is likely. Remove and clean any contaminated clothing and shoes prior to reuse.
- Contact with material may cause irritation to the eyes and skin. Flush immediately out of eyes and/or off of skin. Prolonged and/or repeated skin contact with this material may cause irritation and dermatitis.
- Inhalation of salt mists may be irritating to the nose, throat and lungs. Ensure adequate ventilation is available.
- If accidentally swallowed, DO NOT INDUCE VOMITING and seek immediate medical attention. Ingestion of very large quantities of material may cause nausea, vomiting, dehydration, diarrhoea, oedema, and possible death. Prolonged over consumption may result in high blood pressure and heart problems.

#### Environmental Information:

- Brine does not partition to air. When spilled into a body of water, the brine will disperse in and mix with the water. A large brine spill into a body of water could result in stratification with the water floating on top of the brine. Eventually the two will mix. When spilled onto soil, brine will behave similarly to spilled water. Sodium chloride may leach from soil into groundwater.
- Material can be toxic to fresh water fish and other aquatic life. A concentrated brine solution (~26% sodium chloride) will dehydrate animal and vegetative species. Plants will wilt and may become damaged in soils with high salt buildup.
- Brine (sodium chloride) is not biodegradable and should not build up in plant or animal tissues. It is absorbed over time as a naturally occurring nutrient.
- Associated wastes may be regulated in Canada and in the United States. Ensure applicable regulations are met.

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For more information on this, or any other NOVA Chemicals' product, please contact us at the nearest location below during business hours or visit our website at [www.novachemicals.com](http://www.novachemicals.com) :

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