

MATERIALS SAFETY DATA SHEET (MSDS) <i>Concentrated Molasses Solids</i>	MSDS Number	NCP/BP/2
	Version number	Version 4.0
	Date issued	13 th July 2018
	Next Review date	July 2020
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COMPANY DETAILS

Name :	NCP Alcohols	Emergency telephone No.:	+27 (31) 579 2004
Address :	121 Sea Cow lake Road, Durban, 4001, South Africa	Telephone :	+27 (31) 560 1111
		Fax :	+27 (31) 579 1541

1. Product and Company Identification

(Page 1 may be used as an emergency safety data sheet)

Trade name :	Concentrated Molasses solids (CMS)	Chemical abstract No. :	Not Applicable
Chemical Family :	Not available	Molecular Mass :	Not Applicable
Chemical name :	Mixture of liquid and dry agricultural commodities	NIOSH No. :	Not Applicable
Synonyms :	Not Applicable	Hazchem code :	Not Applicable
		UN No. :	LOW HAZARD (SABS 0368)

2. Composition:

Hazardous components :	A non toxic aqueous suspension of the residues from the fermentation of Molasses.
EEC classification :	Not Applicable.
R Phrases :	Not Applicable.

3. Hazards Identification:

<u>Main Hazard</u> :	May cause eye irritation.
<u>Flammability</u> :	Not Applicable.
<u>Chemical Hazard</u> :	Not Applicable.
<u>Biological Hazard</u> :	Not Applicable.
<u>Reproductive hazard</u> :	Not Applicable.
<u>Health effects – skin</u> :	May cause temporary staining of the skin but this is not harmful.
<u>Health effects – ingestion</u> :	Probably harmful if swallowed in large amounts.
<u>Health effects – inhalation</u> :	Not Applicable.
<u>Carcinogenicity</u> :	Not Applicable.
<u>Mutagenicity</u> :	Not Applicable.
<u>Neurotoxicity</u> :	Not Applicable.

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4. First – aid Measures:

<u>Product in eye</u>	:	Flush immediately with water for at least 15 minutes. Seek medical attention.
<u>Product on skin</u>	:	Remove contaminated clothing and rinse contaminated area with soap and water. Launder contaminated clothing. Seek medical attention if there is evidence of skin irritation.
<u>Product ingested</u>	:	Obtain medical attention.
<u>Product inhaled</u>	:	No particular ventilation requirements

5. Fire-fighting Measures:

<u>Extinguishing media</u>	:	The product is non flammable. The dried material is combustible. Water or any other extinguishing agents may be used, should there be an incident involving CMS.
<u>Special hazards</u>	:	Not Applicable.
<u>Protective clothing</u>	:	As in any fire, wear a self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures:

<u>Personal precautions</u>	:	Not Applicable.
<u>Environmental precautions</u>	:	Prevent liquid entering sewers. Do not allow to enter surface waters, storm drains, etc.
<u>Small spills</u>	:	Take immediate steps to stop and contain the spill.
<u>Large spills</u>	:	Stop the source of the release, contain the spill using appropriate material and prevent it from entering any waterway or sewer. Recover any spilled material and washings to a water treatment facility.

7. Handling and Storage:

<u>Suitable material</u>	:	Rubber-lined, stainless steel or glass – lined vessels are recommended.
<u>Handling/ storage precautions</u>	:	Incompatible with powerful oxidising agents.

8. Exposure Control / Personal Protection:

<u>Occupational exposure limits</u>	:	Not Applicable.
<u>Engineering control measures</u>	:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<u>Personal protection– respiratory</u>	:	May aggravate existing respiratory problems. Use nontoxic particle mask

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<u>Personal protection</u>	
- hand	: Rubber or neoprene gloves are recommended.
<u>Personal protection</u>	
- eye	: Wear chemical safety goggles.
<u>Personal protection</u>	
- skin	: Standard protective clothing is recommended.
<u>Other protection</u>	: Not Applicable.

9. Physical and Chemical Properties:

Appearance	: Slight amber to dark brown viscous liquid.
Odour	: Characteristic CMS odour.
pH	: 5
Boiling point	: Not Applicable.
Melting point	: Not Applicable.
Flash point	: 200°C
Flammability	: Not Applicable.
Autoflammability	: Not Applicable.
Explosive properties	: Not Applicable.
Oxidizing properties	: Not Applicable.
Vapour pressure	: Not Applicable.
Density	: 1300 kg/m ³ at 25°C.
Solubility - water	: Soluble, but contains some insoluble solids.
Solubility – solvent:	: Not Applicable.
Solubility – coefficient	: Not Applicable.

10. Stability and Reactivity:

<u>Condition to avoid</u>	: Overheating, Oxidising agents. The product may foam upon heating. All holding tanks should be adequately ventilated.
<u>Incompatible materials</u>	: Oxidising agents.
<u>Hazardous decomposition products</u>	: Carbon monoxide, alcohol or fatty acid vapors.

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11. Toxicological Information:

Acute toxicity	:	Not Applicable.
Skin and eye contact	:	Not Applicable.
Chronic toxicity	:	Not Applicable.
Carcinogenicity	:	Not Applicable.
Mutagenicity	:	Not Applicable.
Neurotoxicity	:	Not Applicable.
Reproductive hazards	:	Not Applicable.

12. Ecological Information:

Aquatic toxicity – fish	:	Not Applicable.
Aquatic toxicity – daphnia	:	Not Applicable.
Aquatic toxicity – algae	:	Not Applicable.
Biodegradability	:	Not Applicable.
Bio – accumulation	:	Prevent release to land or water. Results in high Biological Oxygen Demand (BOD) and potential oxygen depletion of aquatic systems.
Mobility	:	Not Applicable.
German wgk	:	Not Applicable.

13. Disposal Considerations:

Disposal methods	:	Only under conditions approved by local authorities.
Disposal of packaging	:	Not Applicable.

14. Transport Information:

UN No	:	LOW HAZARD (SANS 10368).
Substance Identity No	:	Not Applicable.
ADR/RID class	:	Not Applicable.
ADR/RID item No	:	Not Applicable.
ADR/RID hazard identity No	:	Not Applicable.

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IMDG – shipping name	:	Not Applicable.
IMDG – class	:	Not Applicable.
IMDG – packaging group	:	Not Applicable.
IMDG – marine pollutant	:	Not Applicable.
IMDG – EMS No	:	Not Applicable.
IMDG – MFAG table No	:	Not Applicable.
IATA – shipping name	:	Not Applicable.
IATA – class	:	Not Applicable.
IATA – subsidiary risk(s)	:	Not Applicable.
ADNR – class	:	Not Applicable.
UK – description	:	Not Applicable.
UK- emergency action class	:	Not Applicable.

15. Regulatory Information:

EEC hazard classification	:	Not Applicable.
Risk phases	:	Not Applicable.
Safety phases	:	Not Applicable.
National legislation	:	Not Applicable.

16. Sources of Information

NCP Alcohols QA/QC Laboratory

17. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall NCP Alcohols be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if NCP Alcohols has been advised of the possibility of such damages.

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18. Change Details

- Revision: 2.0 - Changed MSDS Format
- Updated contents to include current information available
- Revision 3.0 - Format changes
- Included change details section
 - Updated sources of information section
- Revision 4.0 - Document reviewed. No changes.

19. References

1. SANS 10368:2007.

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