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SAI GLOBAL
Quality
ISO 9001

ANHYDROUS SODIUM SULPHATE

DETERGENT GRADE PRODUCT INFORMATION SHEET

WITH TRACE CONSTITUENTS

Meets FCC and Kosher Requirements

Effective: January 01, 2020

Location.....Chaplin Plant
Material SourceNatural Lake Deposit
ProcessMultiple Effect Evaporators

NOTE: The chemical, screen and physical data are average values for production for a recent twelve month period and are not to be construed as guarantees. Individual shipments may be subject to normal variation from the typical.

AVERAGE CHEMICAL ANALYSIS:

Sodium Sulphate.....	*Na ₂ S ₀₄	99.32%
Calcium Sulphate.....	CaS ₀₄	0.06%
Magnesium Sulphate.....	MgS ₀₄	0.35%
Sodium Carbonate.....	Na ₂ C ₀₃	0.00%
Sodium Bicarbonate.....	NaHC ₀₃	0.04%
Sodium Chloride.....	NaCl	0.22%
Water Insolubles.....		0.01%

* Minimum 99.0% by Difference

TYPICAL TRACE CONSTITUENTS:

Moisture.....		0.024%
Iron.....	Fe in ppm	1.609

AVERAGE SCREEN ANALYSIS:

U.S.Screen Sieve Size	Percent of Total	Percent Cumulative
+ 20	0.3%	0.3%
- 20 + 40	1.3%	1.6%
- 40 + 60	7.8%	9.4%
- 60 + 100	32.1%	41.5%
- 100 + 200	45.0%	86.5%
- 200	13.5%	100.0%

MATERIAL DATA:

Chemical Name.....Anhydrous Sodium Sulphate
Chemical Formula.....Na₂S₀₄
Molecular Weight.....142.04
CAS Number.....7757-82-6

PHYSICAL DATA:

Appearance.....White Granular Powder
Specific Gravity.....2.7
Melting Point.....882°C
pH of Solution..... 6.06 @ 1% by weight
6.35 @ 5% by weight
6.79 @ 10% by weight
Bulk Density.....87.25 lb/cu.ft Free Flow
Solubility @ 20°C.....15.9 % by weight
Reflectance.....89.6 avg ASTM E 97
Angle of Repose.....32°

NUTRITION DATA:

Sodium.....32.25%
Sulphur.....22.53%
Magnesium.....0.071%
Calcium.....0.018%

MISCELLANEOUS:

Packaging.....50 pound Bags and Supersacs
Bulk Shipments.....100-114 ton Rail Hopper Cars
and 25 - 50 ton Bulk Trucks
Railroads.....Canadian Pacific Railway

Food Chemicals.....Meets FCC Specifications,
Tenth Edition, 2016

Kosher.....Certified as Kosher

ISO9001:2015.....Certified System - QMI SAI Global

The listed information 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 investigation to determine the suitability of the information for their particular purpose.

Please contact us regarding any questions you may have concerning this information, or regarding any other data not detailed in this publication.

Information concerning the handling and use of this product is provided in the Safety Data Sheet (SDS) available by contacting SASKATCHEWAN MINING & MINERALS INC. The SDS must be fully read and understood prior to any exposure, handling or use of the product.

TRACE CONSTITUENTS - Chaplin				
ELEMENT	SYMBOL	TEST METHOD	CONCENTRATIONS (ppm or ug/g)	
ALUMINUM	Al	ICP-AES	1.6	TOTAL
ANTIMONY	Sb	ICP-MS	<0.2	TOTAL
ARSENIC	As	ICP-AES	<0.5	TOTAL
BORON	B	ICP-AES	1.5	TOTAL
BROMIDE	Br	ICP-AES	<5	TOTAL
CADMIUM	Cd	ICP-AES	<0.001	INSOLS
CADMIUM	Cd	ICP-AES	<0.001	SOLUBLE
CHROMIUM	Cr	ICP-AES	0.13	INSOLS
CHROMIUM	Cr	ICP-AES	0.003	SOLUBLE
COBALT	Co	ICP-AES	<0.001	INSOLS
COBALT	Co	ICP-AES	0.003	SOLUBLE
COPPER	Cu	ICP-AES	<0.001	INSOLS
COPPER	Cu	ICP-AES	0.006	SOLUBLE
IRON	Fe	ICP-AES	1.53	INSOLS
IRON	Fe	ICP-AES	0.079	SOLUBLE
LEAD	Pb	ICP-AES	0.004	INSOLS
LEAD	Pb	ICP-AES	0.006	SOLUBLE
MANGANESE	Mn	ICP-AES	0.2	TOTAL
MERCURY	Hg	AA	<0.002	TOTAL
NICKEL	Ni	ICP-AES	0.021	INSOLS
NICKEL	Ni	ICP-AES	0.066	SOLUBLE
PHOSPHORUS	P	ICP-AES	2	TOTAL
PLATINUM	Pt	ICP-AES	<0.2	TOTAL
POTASSIUM	K	ICP-AES	150	
SELENIUM	Se	ICP-AES	<0.5	TOTAL
SILICON	Si	GRAVIMETRIC	4	INSOLS
TELLURIUM	Te	ICP-MS	<0.5	TOTAL
ZINC	Zn	ICP-AES	0.005	INSOLS
ZINC	Zn	ICP-AES	0.094	SOLUBLE
• AA TEST METHOD - Atomic absorption. • ICP-AES TEST METHOD - Inductively coupled plasma - atomic emissions spectroscopy. • ICP-MS TEST METHOD - Inductively coupled plasma - mass spectroscopy • <0.001 denotes concentrations below the confident detection limits of the test used. • PPM and UG/G are equivalent measurements. • The above results were obtained for a single typical sample. Concentrations for individual shipments may vary from the above.				