SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium Chloride

Catalog Numbers: S029, S028, S234

Synonyms: Halite; Common salt; Rock salt

CAS-No. : 7647-14-5

Company Information:

LEONID CHEMICALS Pvt Ltd,
62/A2, 1st Stage,
Yeshwanthpur Industrial Suburb,
Ashokpuram School Road,
Bangalore -22, Karnataka, INDIA
Ph- +91-80-23378354
Fax: +918023378354/23377126
Email: lab@leonidchemicals.net

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular Weight : 58,44 g/mol
CAS-No. : 7647-14-5
EC-No. : 231-598-3

No components need to be disclosed according to the applicable regulations.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas, Sodium oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance Form Colour	: solid : colourless
b)	Odour	: no data available
c)	Odour Threshold	: no data available
d)	pH	: 7
e)	Melting point/freezing point	: 801 °C
f)	Initial boiling point and boiling range	: 1.413 °C
g)	Flash point	: no data available
h)	Evapouration rate	: no data available
i)	Flammability (solid, gas)	: no data available
j)	Upper/lower flammability or explosive limits	: no data available
k)	Vapour pressure	: 1,33 hPa at 865 °C

l)	Vapour density	: no data available
m)	Relative density	: 2,1650 g/cm3
n)	Water solubility	: soluble
o)	Partition coefficient:n-octanol/water	: no data available
p)	Auto-ignition temperature	: no data available
q)	Decomposition temperature	: no data available
r)	Viscosity	: no data available
s)	Explosive properties	: no data available
t)	Oxidizing properties	: no data available

9.2 Other safety information
no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 3.550 mg/kg

LC50 Inhalation - rat - 1 h - > 42.000 mg/m3

LD50 Dermal - rabbit - > 10.000 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

Vomiting, Diarrhoea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 5.840 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
NOEC - Daphnia - 1.500 mg/l - 7 d
LC50 - Daphnia magna (Water flea) - 1.661 mg/l - 48 h

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
no data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 – ADDITIONAL 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 Leonid Chemicals Pvt. Ltd. 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 Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.

Specification manual - Sodium Chloride

NaCl **MW: 58.44**

Product : **Sodium Chloride AR, LR, ACS**
Description : **Small white crystals or a crystalline powder**
Cat No : **S028**
Cas No : **7647-14-5**
Prepared Date : **07.03.2005**
Approved Date : **07.03.2005**

REVISION HISTORY				
Issue/Rev	**Description of Change**		**Author**	**Effective Date**
01/00	*Initial Release*		*S. Paul Joshua*	*07.03.2005*
02/00	*Reviewed no changes*		*S. Paul Joshua*	*01.04.2011*
Next Review Due :	*02.04.2015*			
To be reviewed by :	Head-QC/QA			

Sl. No.	Tests	Specification		
		AR	**LR**	**ACS**
1	Assay (after ignition)	NLT 99.9 percent	Min 99.2%	≥99.0%
2	Insoluble matter	0.003 percent		0.005%
3	Free acid (HCl)	0.0018 percent	0.0018%	-
4	Free alkali	0.05 ml N/1 percent	0.05ml N/1%	-
5	Bromide and Iodide (Br)	0.005 percent	-	-
6	Ferro cyanide [Fe(CN)6)	0.0001 percent	-	-
7	Chlorate and Nitrate (NO3)	0.0005 percent	-	0.003%
8	Phosphate (PO4)	0.0005 percent	-	-
9	Sulphate (SO4)	0.002 percent	-	0.004%
10	Ammonium (NH4)	0.0005 percent	-	-

Approved By: S.Paul Joshua,Head Quality Control and Quality Assurance

11	Arsenic (As)	0.00004 percent	-	-
12	Barium (Ba)	0.001 percent	-	0.001%
13	Calcium group and Magnesium (Ca)	0.004 percent	-	0.005%
14	Iron (Fe)	0.0003 percent	-	-
15	Heavy metals (Pb)	0.0005 percent	-	5 ppm
16	Potassium (K)	0.01 percent	-	0.005%
17	Iodide (I)		-	0.002%
18	Bromide (Br)	-		0.01%
19	Nitrogen compounds (as N)	-	-	0.001%
20	Iron (Fe)	-	-	2 ppm
21	pH of soln at 25°C	-	7.0 – 9.0	-

62/A2 1st Stage Yeshvanthpur Industrial Suburb ,Ashokpuram School Road Bangalore 560022 Karnataka ,INDIA.
Telefax:+91 080 23378354/23377126 Email:paul@leonidchemicals.net,
www.leonidchemicals.com