



Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: **Sodium Chloride (NaCl)**  
Brand name: Refined Salt Pharma Grade (PG)  
CAS: 7647-14-5  
EC: 231-598-3  
REACH registration number: 01-2119485491-33-0103

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Formulation of chemicals, industrial, professional and consumer use of cosmetics  
Uses advised against: -  
Reason why uses advised against: -

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer: PT UNIChemCandi Indonesia**

Address: Kawasan Industri JIPE  
Manyar – Gresik  
Jawa Timur 61151  
Indonesia  
Phone: +62-31-8921342  
Fax: +62-31-8921345  
Email: ucisda@unicem.co.id

European contact: Luxcontrol S.A (Only Representative) reach@luxcontrol.com

### 1.4 Emergency telephone number

France, ORFILA : +33 1 45 42 59 59 (24h/7j)  
Italy: CAV Centro Nazionale di Informazione Tossicologica: +39 382-24444 (24h/7j)  
Spain: Servicio de Información Toxicológica (SIT): +34 915 620 420 (24h/7j)  
Netherlands: National Poisons Information Center: +31 88 75 585 61 (24h/7j)  
UK National Poisons Emergency: +44 870 600 6266 (24h/7j)  
Other comments: -

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

The classification of the substance has not been harmonized yet according to the annex VI of the regulation (EC) 1272/2008. The manufacturer recommends however, the following classification based on available substance information and the registration dossier:

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified as hazardous

### 2.2 Label elements

Hazard pictograms: None  
Signal word: None  
Hazard statement(s) : None  
Precautionary statement(s) : None  
Supplemental Hazard information (EU): Not applicable

\* see full list of precautionary statements under section 16

### 2.3 Other hazards

Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

vPvB/PBT assessment: substance not PBT / vPvB

**Section 3. Composition/information on ingredients****3.1 Composition of the substance**

Name	EC	CAS	Registration number	Weight %
Sodium Chloride	231-598-3	7647-14-5	01-2119485491-33-0103	99 – 100.5

**3.2 Additional information: -****Section 4. First-aid measures****4.1 Description of first aid measures**General advice

- Move out of dangerous area
- Immediately remove any clothing soiled by the product
- Show this safety data sheet to the doctor in attendance
- Do not leave the victim unattended

If inhaled: Remove to fresh air. Get medical attention for any breathing difficulty.In case of skin contact: May irritate damaged skin. Wash off with soap and plenty of water.In case of eye contact: Immediately flush eyes with plenty of water, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.If swallowed: If large amounts were swallowed, give water to drink and get medical advice.**4.2 Most important symptoms & effects both acute & delayed**

Acute effects: -

Delayed effects: -

**4.3 Indication of any immediate medical attention and special treatment needed: -****Section 5. Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: -

**5.2 Special hazards arising from the substance or mixture**

Specific hazards: -

Hazardous combustion products: under fire conditions: Sodium/sodium oxides, Hydrogen chloride gas

**5.3 Advice for firefighters**

Protective actions during firefighting: Avoid breathing fire gases or vapors.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Additional information:**

Standard procedure for chemical fires

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment



Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

**Section 6. Accidental release measures**

**6.1 Personal precautions, protective equipment & emergency procedures**

Wear protective equipment.  
Keep unprotected persons away.  
Avoid dust formation.

**6.2 Environmental precautions**

Prevent product from entering drains, sewers/ surface, ground water or rivers  
Prevent further leakage or spillage if safe to do so  
If the product contaminates rivers and lakes or drains inform respective authorities

**6.3 Methods and material for containment and cleaning up**

Contain spillage with sand, earth or other suitable non-combustible material.  
Collect and place in suitable waste disposal containers and seal securely.

**6.4 Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

**Section 7. Handling and storage**

**7.1 Precautions for safe handling**

Protective measures:

- Measures to prevent fire: -
- Measures to prevent aerosol and dust generation: Provide appropriate exhaust ventilation at places where dust is formed.
- Measures to protect the environment: do NOT wash away into sewer

Advice on general occupational hygiene:

- Do not eat, drink, or smoke during work
- Wash hands, forearms and face thoroughly after handling, before eating, smoking and using the lavatory and at the end of the working period.
- Remove contaminated clothing and protective equipment before entering eating area

**7.2 Conditions for safe storage, including any incompatibility**

Technical measures and storage condition:

- Keep in ambient temperature, dry and well-ventilated place. Keep away from direct sun exposure, incompatible substance, water and sources of ignition

Packaging material: Polyethylene, Polypropylene

**7.3 Specific end use(s)**

Recommendations: -

**Section 8. Exposure controls/personal protection**

**8.1 Control parameters**

- Occupational exposure limits values: the product does not contain any substances with occupational exposure limit values.

- Endpoint-specific DNEL and PNEC values:

DNEL	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Route of exposure	<b>Workers</b>			
Oral	-	-	-	-
Inhalation	<i>no-threshold effect</i>	2 068.62 mg/m <sup>3</sup>	<i>no-threshold effect</i>	2 068.62 mg/m <sup>3</sup>
Dermal	<i>no-threshold effect</i>	295.52 mg/kg bw/day	<i>no-threshold effect</i>	295.52 mg/kg bw/day
Route of exposure	<b>Consumers</b>			



Product name: Sodium Chloride (NaCl)

Ver. 5; date of publication: February 26, 2021

Oral	-	126.65 mg/kg bw/day	-	126.65 mg/kg bw/day
Inhalation	<i>no-threshold effect</i>	443.28 mg/m <sup>3</sup>	<i>no-threshold effect</i>	443.28 mg/m <sup>3</sup>
Dermal	<i>no-threshold effect</i>	126.65 mg/kg bw/day	<i>no-threshold effect</i>	126.65 mg/kg bw/day

Environmental protection target	PNEC
Freshwater	5 mg/L
Freshwater sediments	No exposure of sediment expected
Marine water	No data: aquatic toxicity unlikely
Marine water sediments	No exposure of sediment expected
Intermittent releases	No data available
Oral	No potential for bioaccumulation
Microorganisms in sewage treatment	500 mg/L
Soil (agricultural)	4.86 mg/kg soil dw
Air	No data available

## 8.2 Exposure control

### Appropriate engineering controls

- Work areas should be physically separated if possible.
- Provision of good ventilation in the working area.
- Facilities storing or utilizing this material should be equipped with a clearly signposted eyewash facility and a safety shower.

### Personal protection:

- Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as CEN (EU)
- Hand protection: For prolonged or repeated contact use protective gloves
- Eye protection: Approved safety goggles.
- Skin and body protection: -

### Hygiene measures:

- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

## 8.3 Environmental exposure controls

- Product related measures to prevent exposure: -
- Instruction measures to prevent exposure: Do not allow to get into sewer system, surface water or ground water.
- Organizational measures to prevent exposure: -
- Technical measures to prevent exposure: -
- Environmental exposure controls: -

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	White / Crystal
Odor	Odorless
odor threshold	No data available
Taste	Salty
Molecular weight	58.44 g/mole
Melting point	801°C (1473.8°F)
Initial boiling point and boiling range	1413°C (2575.4°F)
Flash point	Not relevant
Evaporation rate	Not relevant
Flammability (solid, gas)	Non flammable
Upper/lower flammability or explosive limits	-
Vapour pressure	Not relevant



Product name: Sodium Chloride (NaCl)

Ver. 5; date of publication: February 26, 2021

Vapour density	No data available
Specific gravity (H <sub>2</sub> O=1)	2.165 (Water = 1)
Solubility(ies)	317 g/L (water solubility)
Partition coefficient (n-octanol/water)	Not relevant
Auto-ignition temperature	Non flammable
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Refractive Index	No data available

**9.2 Other safety information: -****Section 10. Stability and reactivity****10.1 Reactivity**

None

**10.2 Chemical stability**

Stable under normal conditions of use, storage, and transport

**10.3 Possible hazardous reaction**

None

**10.4 Conditions to avoid**

None

**10.5 Incompatible materials**

Strong oxidizing agents, metals, acids.

Hygroscopic: Reacts with most nonnoble metals such as iron or steel, building materials (such as cement) Sodium chloride is rapidly attacked by bromine trifluoride. Violent reaction with lithium.

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Sodium/sodium oxides, Hydrogen chloride gas

**Section 11. Toxicological information****11.1 Information on toxicological effects**Acute toxicity (LD<sub>50</sub>/LC<sub>50</sub>):

Method	Results	Reference
<b>ORAL</b>		
Rat (strain not specified), male Method not specified oral: gavage	LD <sub>50</sub> = 3.550 mg/kg bw Test material: Sodium chloride	Study Report
<b>INHALATION</b>		
Rat (strain not specified), male Method not specified inhalation: aerosol	LC <sub>50</sub> > 42 mg/ L air Test material: Sodium chloride	Study Report
<b>DERMAL</b>		
Rat (New Zealand White), sex not specified Method not specified Coverage: not specified	LD <sub>50</sub> > 10.000 mg/kg bw Test material: Sodium chloride	Study Report

Skin corrosion/irritation:



Product name: Sodium Chloride (NaCl)

Ver. 5; date of publication: February 26, 2021

Method	Results	Reference
Rabbit (strain not specified) Method not specified Coverage: not specified	Result: not irritating for the skin Test material: Sodium chloride	Study Report (1954)

Serious eye damage/irritation:

Method	Results	Reference
Eye irritation was evaluated in rabbits and the study methodology followed appeared to equivalent or similar to OECD 405. The report does not contain sufficient information on the interpretation of the scores so obtained at 24, 48 and 72 hours.		

Respiratory or skin sensitisation:

Method	Results	Reference
Mouse (Balb /c), female Method not specified	Result: not sensitizing Test material: Sodium chloride	European Journal of Dermatology. Volume 9, Number 3, 185-90, April- May 1999, Revues

Germ cell mutagenicity: data conclusive but not sufficient for classification

Carcinogenicity: Not classified as carcinogen

Reproductive toxicity: Sodium chloride is not classified as a developmental toxicant.

STOT-single exposure: data conclusive but not sufficient for classification

STOT-repeated exposure: data conclusive but not sufficient for classification

Aspiration hazard: -

Further information: -

**Section 12. Ecological information****12.1 Toxicity**

Aquatic toxicity

Method	Results	Reference
<b>Short-term toxicity to fish</b>		
Lepomis macrochirus Method equivalent or similar to guideline ASTM E729 Flow-through, freshwater Duration of exposure: 96 hours	LL50 (96h) = 5.840 mg/L Basis for effect: mortality Test material: Sodium chloride	Study report, 1985
<b>Long-term toxicity to fish</b>		
Pimephales promelas Method equivalent or similar to OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) Flow-through, freshwater Duration of exposure: 33 days	NOEC (33 d) = 252 mg/L Basis for effect: mortality Test material: Sodium chloride	Study report, 1985
<b>Short-term toxicity to aquatic invertebrates</b>		
Daphnia magna Standard methods for the Examination of Water and Waste Water (APHA), Washington DC Freshwater, static Duration of exposure: 48h	LC50 (48h): 874 mg/L Basis for effect: mortality Test material: Sodium chloride	Ecotoxicol. Environ. Safety. 18: 109-120, 1989
<b>Long-term toxicity to aquatic invertebrates</b>		
Daphnia pulex Method equivalent or similar to OECD Guideline 211 (Daphnia magna Reproduction Test) Freshwater, semi-static Duration of exposure: 21 days	NOEC (21 d): 441 mg/L Basis for effect: reproduction Test material: Sodium chloride	Memorandum of agreement No. 5429, Kentucky Natural Resources and Environmental Protection Cabinet, Lexington, Kentucky, 1985
<b>Toxicity to aquatic algae and cyanobacteria</b>		

Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

Nitzschia sp. Method equivalent or similar to OECD Guideline 201 (Alga, Growth Inhibition Test) Freshwater, static Duration of exposure: 120h	EC50 (120 h) = 2.430 mg/L Basis for effect: cell number Test material: Sodium chloride	Prog. Fish. Cult., Vol. 30, no 3, p137-140., 1968
<b>Toxicity to microorganisms</b>		
No relevant data available		

**12.2 Persistence and degradability**

Abiotic degradation: Study technically not feasible

Physical- and photo-chemical elimination: No relevant information available

Biodegradation: No relevant information available

Adsorption/ desorption: No relevant information available

**12.3 Bioaccumulative potential**

No relevant information available

**12.4 Mobility in soil**

No relevant information available

**12.5 Results PBT & vPvB assessment**

vPvB/PBT assessment: substance not PBT / vPvB

**12.6 Other adverse effects: -****12.7 Additional information: -****Section 13. Disposal considerations****13.1 Waste treatment methods**

Product/ Packaging disposal:

Do not dispose of waste into sewer

Do not contaminate ponds, waterways or ditches with chemical or used container

Send to a licensed waste management company

Dispose of in accordance with local regulations

**13.2 Additional information**

Recycle any unused portion of the material for its approved use or return it to the manufacturer or supplier. Ultimate disposal of the chemical must consider: the material's impact on air quality; potential migration in soil or water; effects on animal, aquatic, and plant life; and conformance with environmental and public health regulations.

**Section 14. Transport information****14.1 Land transport ADR/RID**

- UN number: Not classified as dangerous goods

- UN proper shipping name: -

- Transport hazard class(es) and labels: -

- Packing group: -

**14.2 Marine transport IMDG**

- UN number: Not classified as dangerous goods

- UN proper shipping name: -

- Transport hazard class(es) and labels: -

- Packing group: -

Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

- EmS code: -
- Marine pollutant : -

**14.3 Air transport IATA-DGR**

- UN number: Not classified as dangerous goods
- UN proper shipping name: -
- Transport hazard class(es) and labels: -
- Packing group: -

**Section 15. Regulatory information****15.1 Safety, health and environmental reg./leg. specific for the substance or mixture**

- Other EU regulations: -
- Other national regulations: -

**15.2 Chemical safety report**

A Chemical Safety Assessment is available. As the substance is not classified as hazardous, exposure scenarios are not required.

**Section 16. Other information****16.1 Indication of changes**

Version 1: First issue following the submission of a registration dossier according to REACH regulation (27.01.2021)

**16.2 Abbreviations and acronyms**

AGS	Ausschuss für Gefahrstoffe	LoW	List of Waste
BCF	BioConcentration Factor	MARPOL	MARine POLLution
CAS	Chemical Abstract Service	MIE	Minimum Ignition Energy
CMR	Carcinogenic, Mutagenic and Reprotoxic	N°EC	European Commission number
CSR	Chemical Safety Report	NFPA	National Fire Protection Association
DFG	German Research Foundation	NIOSH	National Institute of Occupational Safety and Health
DNEL	Derived No Effect Level	NOEC	No Observed Effect Concentration
EC	European Commission	NOELR	No Observed Effect Loading Rate
EC50	Effective Concentration (required to induce a 50% effect)	OECD	Organisation for Economic Co-operation and Development
EEC	European Economic Community	OEL	Occupational Exposure Limit
EWC	European Waste Catalogue Code	OSHA	Occupational Safety and Health Administration
IDLH	Immediately Dangerous to Life or Health	PBT	Persistent Bioaccumulable Toxique
IBC	International Bulk Chemical	PNEC	Previsible Non Effect Concentration
Koc	Soil/Water Partition Coefficient	QSAR	Quantitative Structure-Activity Relationship
Kow	Octanol/Water Partition Coefficient	STOT	Specific Target Organ Toxicity
LC50	Lethal Concentration 50	TCLo	Toxic Concentration Low
LD50	Lethal Dose 50	TDLo	Toxic Dose Low
LEL	Lower Explosive Limit	UN	United Nations
LL100	Lethal Loading	UVCB	Unknown or Variable Composition Complex Reaction Products, or Biological Materials
LOEC	Lowest Observed Effect Concentration	vPvB	very Persistent, very Bioaccumulative

**16.3 Key literature references and sources for data**

<http://echa.europa.eu/>

**16.4 Relevant H-statements (number and full text):****According to Regulation (EC) No 1272/2008**

Hazard statement(s): None





Product name: **Sodium Chloride (NaCl)**

Ver. 5; date of publication: February 26, 2021

Precautionary statement(s): None

**16.5 Training advice:** -

**16.6 Further information:** -

*To the best of our knowledge and belief, the information contained herein is accurate and obtained from sources believed to be reliable. No representation is made that the information is complete or the material is suitable for all purposes. The final determination as to the suitability of the user's intended use of the material is the sole responsibility of the user. All materials may present unknown hazards even when used in common applications and accordingly, it is the sole responsibility of the user to understand and address all potential hazards, including those identified herein. The information set forth in Sections 11 and 12 reflects data available as of the date hereof. It is anticipated that such data will be updated.*