SAFETY DATA SHEET

[In accordance with the criteria of Regulation No 1907/2006 (REACH) with further changes]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier.

NicSalt-T

Nicotine Tartrate

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

Relevant identified uses: production of mixtures.

Uses advised against: not determined

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

Supplier: **CHEMNOVATIC Sp. z o.o. Sp. k.**

Address: Dobrzańskiego 3/BS002, 20-262 Lublin, POLAND

Phone: +48 814754442

E-mail address of the person responsible for the information card: office@chemnovatic.com

1.4. Emergency telephone number.

112 (general emergency phone number)

Section 2: Hazards Identification

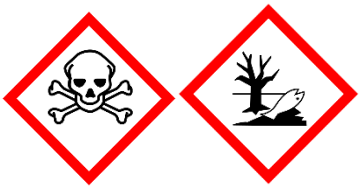
2.1. Classification of the substance or mixture.

Classification according to 1272/2008/EC

Acute Tox. 2 (oral) - Acute toxicity, category 2; H300
Acute Tox. 1 (skin) - Acute toxicity, category 1; H310
Acute Tox. 2 (inhalation) - Acute toxicity, category 2; H330
Aquatic Chronic Toxicity, category 2: H411

2.2. Label elements

Hazard symbols and signal words



Danger

Hazard statements

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361 Remove/Take off immediately all contaminated clothing.
P405 Store locked up.
P501 Dispose of contents/container to container for waste.

2.3. Other hazards

No information whether the mixture meets criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

Section 3: Composition/Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

No.	Chemical name	Percentage	CAS	EC (EINECS)	Index No./ REACH Registration No.	Classification according to 1272/2008/EC
1.	Nicotine tartrate (Nicotine Ditartrate Dihydrate ; (S)-(-)-1-Methyl-2-(3-pyridyl)pyrrolidine (+)-ditartrate salt)	~100,0 %	65-31-6	200-607-2	614-002-00-X /not applicable	Acute Tox. 1 H310; Acute Tox. 2 H300; Acute Tox. 2 H330; Aquatic Chronic 2 H411

Full text of H - phrases in section 16.

Section 4: First aid measures

4.1. Description of first aid measures.

General information: first aid person should take care of his own safety first.

Instantly remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide CPR. Show this safety data sheet to the doctor in attendance

After inhalation: In case of unconsciousness bring patient into stable side position for transport.

After skin contact: Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing: Do not induce vomiting; instantly call for medical help.

4.2. Most important symptoms and effects, both acute and delayed.

Dizziness and headache, agitation, vomiting, convulsions, collapse, respiratory arrest.

4.3. Indication of any immediate medical attention and special treatment needed.

Symptomatic treatment.

Section 5: Firefighting measures

5.1. Extinguishing media.

Suitable extinguishing media: foam, extinguishing powder, water spray, carbon dioxide.

Extinguishing media which must not be used for safety reasons: water jet.

5.2. Special hazards arising from the substance or mixture.

In case of fire, carbon oxides may be formed: nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2). An acrolein may be released in anaerobic conditions.

5.3. Advice for firefighters.

In case of fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures.

Evacuate workers to a safe place. Ensure adequate ventilation. Avoid inhaling vapor, mist, spray. Use complete suit protecting against chemicals. In case of the possibility of uncontrolled release, use breathing apparatus.

6.2. Environmental precautions.

Avoid release to the environment, groundwater. Collect spillage if it safe. Should not be released into environment. Prevent from reaching into drains, sewer, or waterway.

6.3. Methods and material for containment and cleaning up.

Wear personal protective equipment refer to Section 8. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

6.4. References to other sections.

Appropriate conduct with waste product - see section 13. Personal protective equipment - see section 8.

Section 7: Handling and storage

7.1. Precautions for safe handling.

For personal protection refer Section 8. Avoid contact with skin, eyes and clothing. Avoid inhaling vapor, mist, spray. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. In case of inadequate ventilation, use individual respiratory protection. After handling wash hands with plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibilities.

Keep containers tightly closed in cool and well-ventilated area. Keep away from food, beverages or feed for animals. After opening seal the container and store in an upright position to prevent leakage. Avoid heat and ignition sources. Keep out of the reach of children. Store form -25 to +5°C. Product is hygroscopic, avoid moisture.

7.3. Specific end use(s).

No information about the applications other than those listed in subsection 1.2.

Section 8: Exposure control/personal protection

8.1. Control parameters.

Specification	STEL 15 min	TWA 8 hour
Nicotine tartrate (CAS: 65-31-6)	Not Available	Not Available

Please check any national occupational exposure limit values in your country for substance contained in this product.

8.2. Exposure controls.

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. After handling wash hands with plenty of soap and water. Do not eat, drink or smoke when using this product. In case of inadequate ventilation, use individual respiratory protection.

Individual protection measures, such as personal protective equipment

Eye and face protection

Face shield and safety goggles. Use equipment for eye protection tested and approved according EN 166(EU).

- After each use, clean the face shield or goggles and leave in the right conditions.

Skin protection

Hand protection

Handle with gloves. Gloves must be inspected before of use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Wash and dry hands.

Gloves must be tested and approved according Directive 89/686/EEC and EN 374 derived from it.

Full contact

Material: butyl-rubber.

Minimum layer thickness: 0.3 mm

Break through time: 480 min

- Before use, inspect the gloves.
- Before reuse inspected gloves.
- After using gloves, with the intention of using them again, they should be thoroughly rinsed with water, dried and left in proper conditions.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 30 min

Body protection

Complete suit protecting against chemicals. The type of protective equipment should be selected according planed time of contact with substance. Suit should be tested and approved according EN943

Respiratory protection

With short contact with the substance and ensure proper ventilation, respiratory protection is not necessary. With a longer contact it is recommended to use a mask or half-mask filter.

- Filter class at least P2, recommended P3.

Respiratory protection should be adapted to eye protection. Remember to regularly and properly replace filters / absorbers.

Regular inspections of personal protective equipment should be carried out.

Environmental exposure controls

Dispose of unused substance in authorized units.

Dispose of empty packaging in authorized units.

Prevent the substance entering the sewage system, prevent contamination of soil and groundwater. Prevent further leakage or spillage if safe to do so. Do not let product enter drains and ground water.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties.

a) physical state:	solid, crystalline powder/ flakes/ plates
b) colour:	color from white to yellow or pale pink,
c) odour:	characteristic
d) Melting point/freezing point:	89 °C
e) Boiling point or initial boiling point and boiling range:	302 °C
f) Flammability:	not available
g) Lower and upper explosion limit	not available
h) Flash point:	143.20 °C

i) Auto-ignition temperature	244 °C
j) Decomposition temperature:	not determined
k) pH (20°C):	3,14 (for 10 % solution)
l) Kinematic viscosity (mm2/s):	not determined
m) Solubility:	Water solubility: completely miscible
n) Partition coefficient n-octanol/water (log value):	not available
o) Vapour pressure:	$1.235*10^{-19}$
p) Density and/or relative density:	1.39 ± 0.06 g/cm3
q) Relative vapour density:	not available
r) Particle characteristics:	not available

9.2. Other information.

No additional test results.

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. Circumstances to avoid.

Avoid heating closed containers with a substance above 95 °C.

10.5. Incompatible materials.

Strong oxidizing agents.

10.6. Hazardous decomposition products.

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2).

In case of fire – refer Section 5.

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity

Acute toxicity, skin, category 1

Acute toxicity, oral, category 2

Acute toxicity, inhalation category 2

According to harmonized CLP classification for nicotine salts: index no. 614-002-00-X

b) Skin corrosion/irritation

Based on available data, the classification criteria are not met.

c) Serious eye damage/irritation

Based on available data, the classification criteria are not met.

d) Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

e) Germ cell mutagenicity

Based on available data, the classification criteria are not met.

f) Carcinogenicity

Based on available data, the classification criteria are not met.

g) Reproductive toxicity

Based on available data, the classification criteria are not met.

h) STOT-single exposure

Based on available data, the classification criteria are not met.

i) STOT-repeated exposure

Based on available data, the classification criteria are not met.

j) Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

No data available

Section 12: Ecological Information

12.1. Toxicity.

The criteria for environmental toxicity are met. Aquatic Chronic toxicity, category 2.

According to harmonized CLP classification for nicotine salts: index no. 614-002-00-X

12.2. Persistence and degradability.

The substance is suspected of lack of biodegradability (ECHA Dossier).

12.3. Bioaccumulative potential.

No data.

12.4. Mobility in soil.

No data.

12.5. Results of PBT and vPvB assessment.

This substance is not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher according ANNEX XIII REACH Regulation.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects.

No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods.

Dispose of in accordance with the Directive 2008/98/EC and regional regulations to a licensed disposal company. Prevent from reaching into drains, sewer, or waterway.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

14.1 UN number or ID number

1659

14.2 UN proper shipping name

NICOTINE TARTRATE

14.3 Transport hazard class(es)

6.1

14.4 Packing group

II

14.5 Environmental hazards

The mixture is classified as dangerous for the environment.

14.6 Special precautions for user

Use protective measures according to section 8

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Other information

limited number of LQ: 500 g

EQ: E4 (1 g inner packing; 500 g outer packing)

hazard identification number: 60

special provision: -

transport category: 2

code tunnel restriction: D / E

Section 15: Regulatory Information.

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment.

There is no data concerning chemical safety assessment performed for substances.

Section 16: Other Information.

a) revised safety data sheet- changes

Section 14 update. General change of the SDS format according to new regulation.

b) legend to abbreviations and acronyms used in the safety data sheet

TWA Time Weighted Average

PEL	Permissible exposure limit
TLV-C	Threshold limit value- Ceiling Limit
STEL	Short-term exposure limit
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
CAS	Chemical Abstract Service
EC No.	is a unique seven-digit identifier that is assigned to chemical substances for regulatory purposes within the European Union by the regulatory authorities.
LD50	lethal dose, the point where 50% of test subjects exposed would die
LC50	lethal concentraction, the point where 50% of test subjects exposed would die
EC50	half maximal effective concentration
UN number	is four-digit number that identify hazardous substances
ATEmix	Acute Toxicity Estimates for mixture
PEB	permitted exposure for a biological material

c) list of relevant H phrases, hazard statements, safety phrases and/or precautionary statements- full text

all explained in text.

d) trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

e) other data

Classification was made on the basis of data on hazardous substances calculation method based on the guidelines of Regulation 1272/2008/EC (CLP).

The above information is prepared on the basis of current state of knowledge and relates to the product in the form in which it is used. Data relating to the product are presented in order to include safety requirements, and not to guarantee their particular properties.

In the event when conditions of application of the product are beyond control of the manufacturer, responsibility for safe use of the product is borne by the user.

The Employer is obligated to inform all employees who have contact with the product, about hazards and personal protection equipment specified in this material safety data sheet.

This material safety data sheet has been prepared on the basis of MSDS provided by the manufacturer and/or web databases and the binding regulations regarding hazardous substances and chemical agents.

The product is classified as hazardous. EXPOSURE SCENARIOS are not required.