

Mixture Classification Statement — FEELX De-Icing Solution (2 % FEELX inhibitor in

NaCl) Product identity:

- Trade name: FEELX De-Icing Solution (granules) — 2 kg
- Form: solid granules; nominal composition: 98% sodium chloride (NaCl) + 2% FEELX corrosion inhibitor (concentrate)

Source documents:

- Safety Data Sheet (SDS) for FEELX corrosion inhibitor (concentrate): see the last section of this document

Conservative calculation (worst-case approach):

- FEELX inhibitor concentration in premix: 2.0 % w/w.
- From the concentrate SDS, trisodium orthophosphate dodecahydrate (CAS 7601-54-9) may be present up to 50–70 % w/w in the concentrate.
⇒ Maximum possible contribution in premix = $2.0 \% \times 70 \% = 1.40 \% \text{ w/w}$ of trisodium orthophosphate in the premix.
- Other hazardous constituents from the concentrate contribute in aggregate well below 1 % w/w in the premix (conservative upper bound).

Assessment vs. CLP screening criteria:

- The concentrate is classified as Skin Irrit. 2 (H315) and Eye Irrit. 2 (H319).
- Using conservative maxima, trisodium orthophosphate contribution in premix ($\leq 1.40 \% \text{ w/w}$) is substantially below common screening thresholds (typical screening thresholds for Skin Irrit. Cat.2 / Eye Irrit. Cat.2 are in the order of $\sim 10 \% \text{ w/w}$ for many inorganic substances; specific substance rules and additivity criteria apply).
- Therefore, applying a conservative screening approach, FEELX De-Icing Solution (2 % inhibitor) is NOT CLASSIFIED as Skin Irrit. Cat.2 (H315) or Eye Irrit. Cat.2 (H319) as a mixture under CLP.

Conclusion & recommendation:

- The concentrate SDS (see below) and this Mixture Classification Statement are provided to demonstrate the relation between the concentrate and the marketed premix.
- For formal regulatory certainty, a manufacturer-issued SDS for the final premix.
- FEELX De-Icing Solution (2 % inhibitor) is NOT CLASSIFIED as Skin Irrit. Cat.2 (H315) or Eye Irrit. Cat.2 (H319) as a mixture under CLP.

Prepared by: Curalife Development SRL

Date: 2025-10-08

Reference: FEELX SDS (concentrate): FEELX_SDS_concentrate.pdf

Batch No.: 101
Volume: 1 L
Classified as non-dangerous
(Reg. EC 1272/2008).
No expiry date.

FeelX

De-icing Solution Liquid

Made in EU
Manufactured by
EST AUTOAGROSERV SRL
Str. Fundătura Tinjala nr. 1,
700230 Iași, Romania

e1L

Safety Information (EN)

- Keep out of reach of children and pets
- Avoid ingestion
- Store in a cool, dry place above 0°C and below 40°C
- Dispose of empty container according to local regulations
- SDS available upon request
- Compliant with EU REACH and CLP Regulations
- Non-hazardous mixture (not classified according to CLP)
- Ingredients: Distilled water 69 %, Sodium chloride 30 %, FeelX® inhibitor 1 %

Sakerhetsinformation (SE)

- Förvaras åtkomligt för barn och husdjur.
- Undvik förtäring.
- Förvara svalt och torrt mellan 0°C och 40°C.
- Kassera tom behållare enligt lokala föreskrifter.
- Sakerhetsdatablad tillgängligt på begäran.
- Ej klassificerad som farlig enligt CLP.
- Ingredienser: Destillerat vatten 69 %, Natriumklorid 30 %, FeelX®-inhibitor 1 %.

Sicherheitshinweise (DE)

- Darf nicht in die Hände von Kindern und Haustieren gelangen.
- Nicht verschlucken.
- Kühl und trocken zwischen 0°C und 40°C lagern.
- Leere Behälter gemäß den örtlichen Vorschriften entsorgen.
- Sicherheitsdatenblatt auf Anfrage erhältlich.
- Nicht gefährlich (nicht eingestuft gemäß CLP).
- Inhaltsstoffe: Destilliertes Wasser 69 %, Natriumchlorid 30 %, FeelX® Inhibitor 1 %.

TESTED IN
NORDIC
WINTERS



PET FRIENDLY - does not harm
WORKS UP TO 48 HOURS
at max -24°C; covers up to 50m²
Protects surfaces, vehicles,
flowers or lawn
Safe for Solar Panels



Contact:
 feelx@curalife.ro
 www.feelxgreenworld.ch
 feelx.ro



Kotikäyttöön
Paras tulos saadaan, kun tuotetta levitetään illalla ennen pakastusta. Toimii hyvin myös lumen ja jään jälkeen.
Sopii kaikille ajotteille: asfaltti, betoni, laatta tai hartspinnote. Estää vaurioita korjauskustannukset.
Ei vaingoita kasejia ja on turvallinen kalolle. Rakeet liukenevat, evätkä jää sotkua.
Johukas jopa -240°C asti ilman uudelleenjäätymistä – ei tarvitse päivittäin käyttää.
Vinkki!
FeelX liukenee veteen.
Seokita 100 g jauhetta litraan vettä ja ravista – saat turvallisen nestemäisen jäänpöistävän.
Sopii ikkunoihin, portaisiin, katteisiin, lintujen ruokinta-aitoille ja muihin paikoihin.

Technical Agreement

Corrosion inhibitor of sodium chloride, FEELX type

2.1. Usage domains accepted in construction field

The product FEELX is used as corrosion inhibitor (delayer) for the sodium chloride having as effect the deicing and frost control (the chloride sodium is used during the cold season for road maintenance).

The product FEELX is not corrosive for:

- highways, buildings, sidewalks
- car body, sewerage, equipment used for clear snow
- it does not affect the tires, the caoutchouc, the shoes

2.2. Appreciations on the product

2.2.1. Use in construction field

Resistance and stability

This product is very stable in time; if it is stored in the conditions given by the producer (closed spaces, not humidity and clean, stored in plastic bags). There are not special measures of storage.

Safety in use

The product does not present any particular danger if the usage and exploitation mode is in accordance with the Technical conditions paper for the work which has to be done and with the present Technical Agreement.

Fire safety

The product does not present any danger at fire and does not blow up. If there is any fire inside the storage area for the fire extinction it has to be used fire extinguisher with foam, with dust and CO₂ or sand.

Hygiene, human health, environment reconstruction and security

The product does not create problems for human health or work hygiene;

The product is not dangerous for the environment and for human health presenting a good compatibility with these.

Thermal isolation, waterproof and energy sparing

There are not requirements for this product

Protection against noise

There are not necessary special measures

2.2.2. Product endurance and maintenance

The endurance has no limit if the product is stored accordingly the specified conditions.

The maintenance of this product does not involve special conditions.

2.2.3. Manufacturing and control

The chemical treatment agent FEELX produced by SC Autoagroserv SRL is a complex of inorganic salt which is added to the sodium chloride before this one is used. The sodium chloride can be solid or solution 25%. The manufacturer produces its products according to ISO 9001 with the specific technical settlements for the product and it guarantees them by the Quality Certificate of Conformity which accompanies every product.

Quality control is accomplished by the analysis and the warranty for the specified physical and chemical characteristics.

2.3. Technical prescription paper

2.3.1. Conception conditions

The conception conditions belong to the producer SC Autoagroserv SRL which possesses its own technology for obtaining the Corrosion inhibitor of sodium chloride, type FEELX. The producer guarantees the technical characteristics of the product.

2.3.2. Production conditions

The production conditions and the quality of the product (physical and chemical characteristics) are established, secured and certified by the manufacturer.

The control of the production activity is assured by the testing personal laboratory of the manufacturer.

2.3.3. Delivery conditions

The product FEELX is delivered in 2kg boxes.

Every batch is accompanied by the analysis certificate (testing report) which contains data concerning the physical and chemical characteristics of that batch.

2.3.4. Work conditions

The product FEELX is used as corrosion inhibitor of sodium chloride and it is used for deicing and frost control of the roads during winter season.

Working with FEELX and surface treatment mode are to be done according the specifications of the producer. For national roads the use of the mix has to have the approval of the National Administration of the Roads based on the proposals of the Roads and Bridges County Branches.

Conclusions

Global valuation

The use of the product in the approved fields is appreciated as propitious.

Conditions

- the quality of the product has been examined and found satisfactory and this quality has to remain the same, at this standard, along the validity duration period of time of this technical agreement
- giving this technical agreement The Permanent Technical Board for Constructions, it doesn't involve itself in the presence or absence of the legal rights of the company to trade, set up or maintain the product

- any recommendation related to the use is safe conditions which is contained or it refers to this Technical Agreement represents minimum requires which are necessary to work with
- Cestrin Bucharest answer for the accuracy of the data in the Technical Agreement and for the tests the date are based

Table 3. Comparative analysis of the corrosion at salt water and FEELX (granulated and solution 30%)

Test sample	Corrosion (mg/cm ²)		
	brine	FEELX solution	FEELX granulated
Steel	0.22	0	0.01
Aluminum	0.14	0.05	0.053
Cast iron	0.6	0.01	0.02
Brass	0.083	0.01	0.02
Copper	0.11	0	0.01

FEELX was used in the proportion given by the producer 2%, for testing, by the Road Laboratory CESTRIN, to prepare the mix with the sodium chloride, both granulated and solution. It has been put, on an asphaltic mix MASF16, the solution of sodium chloride treated with the inhibitor FEELX. As against it had been analyzed samples of asphaltic mix treated with solutions 25% NaCl (without inhibitor) and CaCl₂.

The results are presented below.

1. Physical and chemical characteristics of an asphaltic mix, test sample and samples submitted to a number of cycle's frost-thaw (16 hours of frost and 8 hours of thaw in different solutions)

Table 4. Physical and chemical characteristics before and after 5 cycles of frost-thaw (different solutions)

Characteristic	FEELX		CaCl ₂		NaCl	
	Initially	finally	Initially	finally	Initially	finally
Density kg/m ³	2386	2387	2381	2382	2358	2362
Marshall Stability, KN	9.1	9.0	9.1	7.4	9.1	7.7
Flow index, mm	14.0	3.7	4.0	3.1	4.0	3.5
Fraction S/I, KN/mm	2.2	2.6	2.2	2.7	2.2	2.2
Rigidity	9097	9552	9097	9480	9097	8800
Deforming at tiredness at 3600 cycles, mm	0.263	0.253	0.263	0.328	0.263	0.386

Table 5. Loss of weight after 5 cycles

Deicing solutions 25%	Sample	Initial weight	Weight after 5 cycles of frost-thaw (g)	Loss of weight	
				(g)	%
FEELX	Plate 1	1427.9	1426.8	1.1	0.077
	Plate 2	1355.3	1354.0	1.3	0.096
	Average	1391.6	1390.4	1.2	0.086
CaCl ₂	Plate 3	1320.1	1319.2	0.9	0.068
	Plate 4	1350.9	1349.9	1.0	0.074
	Average	1335.5	1334.55	0.95	0.071
NaCl	Plate 5	1397.1	1394.9	2.2	0.157
	Plate 6	1477.2	1475.2	2.0	0.135
	Average	1437.15	1435.05	2.1	0.146

Roughness measurements before and after 5 cycles frost-defrost in different deicing solutions

	Roughness measured in SRT units			
	Water	NaCl solution 25%	CaCl ₂ solution 25%	FEELX solution 25%
Initial	72.7	75.7	88.9	88.9
After frost-defrost	69.2	67.7	71.7	76.3

Defrost period of different deicing agents

Time (min)	Liquid quantity collected after defrost at 5°C, ml			
	NaCl solid	FEELX solid	CaCl ₂ solution 25%	FEELX solution 25%
5	Begins defrost			
10		Begins defrost		
15		Thin coating all over the surface		
20	Thin coating all over the surface			
30	13	12	27	22
40	17	20	34	30
50	24	26	39	35
60	30	31	45	40
75	38	40	50	47
90	43	50 (the whole quantity defrost)	56	60
105	50 (the whole		63 (the whole	63 (the whole

	quantity defrost)		quantity defrost)	quantity defrost)
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Establishing the total freezing temperature of a volume of 15 ml solution of deicing agent

Temperature °C	NaCl solution 25%	CaCl ₂ solution 25%	FEELX solution 25%
-7	It appears crystals		
-10			
-12		It appears crystals	
-14			It appears crystals
-15	Whole volume is frozen		
-17		Whole volume is frozen	
-19			Whole volume is frozen

PRODUCT PRESENTATION

This product is a mix of inorganic salts used as corrosion inhibitor for the sodium chloride. This mix is used during the cold season, for road maintenance, having as effect a deicing action and the frost control of the traffic road.

This product is not corrosive for roads, streets, sidewalks, buildings; it does not affect the tires and the shoes, car bodies and the equipment for clear snow. Snow and ice melting is speeded because of the low freezing point (-19°C).

The product offers economic advantages by reduction of the sodium chloride quantity and it does not affect the environment.

Sodium Chloride treated with 2% chemical treatment agent

Physical and chemical properties

	SALT	SOLUTION (40%)
appearance	granulate	liquid
scent	odorless	Soft colored
color	Soft colored	Soft colored
density	-	1.1722/l
pH 10%	8.2	8.3
Freezing point	-24.8°C	-24.5°C
Effect on the asphalt	0.43	0.40
Effect on the tire	0.031	0.030

Corrosion mg/cm²

	SALT	SOLUTION (40%)
Steel	no	no
Aluminum	0.038	0.037
Cast iron	no	no
Brass	no	no
Copper	no	no

Safety card

Possible dangers

Soft annoying

R 36/38 annoying for eyes and skin

After inhaling

The patient has to be transported in a aired place and call the doctor if they appear secondary effects.

After contact with skin

Well wash with water

After contact with the eyes

The eyes have to be washed with water for several minutes. The doctor has to be contacted if the pain persists.

After deglutition

The mouth has to be washed and it is necessary to drink a lot of water.

Technical card

Description

It is a chemical agent for sodium chloride treatment. It has a great power of annihilation of the corrosion of sodium chloride. By treatment of NaCl with treatment agent 2% it is obtained a deicing product more efficient then CaCl₂.

1. This product is not corrosive for:

- highways, buildings, sidewalks
- car body, sewerage, equipment used for clear snow
- it does not affect the tires, the caoutchouc, the shoes

2. The snow and ice melting is more quick because of low freezing point (-24.5°C)

3. It has to be used a smaller quantity of NaCl because by treating the asphaltic mix with the treatment agent, after the snow melting it is formed a protective bed and when the next snow falls down this bed has also a sufficient power of defrost. After snow and ice melting the streets will be cleaner and the drying of the asphaltic cover will be done more quickly.

4. It doesn't affect the environment

5. The warranty is unlimited

6. Melting of snow and ice is done till -25°C.

Agent of chemical treatment*Physical and chemical properties:*

Aspect	- granulated salt
Smell	- odorless
Color	- colored
pH 5%	- 6.5 – 8.5
Density	- 1.123 g/cm ³

Packing

It is packed in 2kg boxes

Store keeping

It has to be stored in covered places, clean and dry

Warranty

In optimum storage conditions the warranty is unlimited



SAFETY DATA SHEET

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Commercial name: **Corrosion inhibitor FEELX®**

Edition: **1.0/EN**

Compilation date: **03.11.2017**

Page **1 of 9**

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Substance or mixture identification

Identification on the label / commercial name: **Corrosion inhibitor FEELX®**

Other means of identification: **Corrosion inhibitor for sodium chloride**

Registration no. according to REACH: **n/a**

1.2 Relevant uses of the substance / mixture

1.2.1 *Identified uses:* during the cold season it can be used for maintenance of roads, pavements, landing and take-off places

Corrosion inhibitor for sodium chloride is an additive in a complex formation of inorganic salts, in cristal form, which can be used during the cold season, in mixture of 2% corrosion and 98% salt, for maintenance of roads, pavements, landing and take-off places of airports. The additive action increases the de-icing effect of the chemical flux, sodium chloride (NaCl), so that it leads to the production of a high quality de-icing product and with less corrosive effects. The mixture of inorganic salts, components of the corrosion inhibitor for salt, leads to inhibiting of the corrosion produced by the sodium chloride.

1.2.2 *Not recommended uses:* avoid contact with eyes

1.3 Company identification:

Supplier (manufacturer):

S.C. EST AUTOAGROSERV S.R.L.

1 FUNDATURA TINJALA street, Iasi City, Iasi County

Telephone: **0740272189**

E-mail (authorised appointed person): **feelx@curalife.ro**

1.4 Emergency telephone number:

Department for the International Sanitary Regulation and Toxicological Information for Romania:
021-318.36.06 (working hours 8:00 – 15:00)

For other EU countries where the product is used please inform yourself and mention here the telephone number of the Department for the International Sanitary Regulation and Toxicological Information:.....

Unique emergency telephone: **112**



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Page **2 of 9**

2. HAZARDS IDENTIFICATION

2.1 Classification of substance/ mixture

This product is classified according to European Regulation no. 1272/2008 - CPL, being classified applying the criteria regarding mixtures classification. For this matter, this product requires a safety data sheet. Additional information related to health and/or hazards for environment can be found at Sections 11 and 12 of the present document.

2.2 Labelling

Labelling according to European Regulation (EC) no. 1272/2008, with subsequent amendments:

-Name of label: **Corrosion inhibitor FEELX®**

-Signal word: **Attention**

-Hazard symbol:



GHS 07

Hazard statement:

H315: Provokes skin irritation.

H319: Provokes severe eye irritation.

Precautionary statement:

General:

P280: Wear protection gloves / protection clothes / protection equipment for eyes / protection equipment for face.

P302+P352: IN CASE OF SKIN CONTACT: wash skin with plenty of water and soap.

P305+P351+P338: IN CASE OF EYE CONTACT: carefully rinse with water for several minutes.

Remove contact lens if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: get medical advice.

P332+P313: If skin irritation persists: get medical advice.

2.3 Other dangers

PBT and vPvB evaluation: This substance is not persistent, bio-accumulating or toxic.



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Page **3 of 9**

3. COMPOSITION / INFORMATION ON INGREDIENTS

Information on mixture:

Chemical name	EC No.	REACH Registration No.	CAS No.	Quant. (%)	CLP Classification 1272/2008 Regulation
					Hazards classes/ Hazards categories Hazard statements
Dodecahidrat monofosfat trisodic Trisodium orthophosphate	231-509-8	01- 2119489800- 32-0008	7601-54-9	50-70	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Sodium phosphate, dihydrate	600-053-5	-	10028-24-7	10-15	Eye Irrit. 2; H319
Pentasodium triphosphate	231-838-7		7758-29-4	10-15	Not classified
Tetrapotassium hexacyanoferrate	237-722-2	-	14459-95-1	<1.5	Aquatic Chronic 3, H412
Acetic acid	200-580-7	-	64-19-7	0.5	Flam. Liq. 3, H 226 Skin Corr. 1A, H 314
Sodium hydroxide	215-185-5	01- 2119457892- 27-0065	1310-73-2	0.5	For: 0.5% ≤ C < 2% Skin Irrit. 2; H315 Eye Irrit. 2; H319
Sodium nitrate	231-554-3	-	7631-99-4	<0.5	Oxid. Solid 2, H272 Acute Tox. 4, H 302

Other information

The complete description of each relevant hazard statement is mentioned at Section 16.

4 FIRST AID MEASURES

4.1 Description of the first aid measures, depending on the relevant areas of exposure:

In case of exposure or you feel sick: call the Department of Toxicological Information or get medical assistance. If possible, give the doctor this Safety Data Sheet.

In case of eye contact: rinse eyes, including under the eyelids, with plenty of water for 15 minutes, then get medical assistance.

In case of ingestion: the victim shall be given plenty of water to drink and shall get emergency medical assistance. Vomiting shall not be induced prior to medical assistance.

In case of inhalation: the victim shall be immediately taken to fresh air. In case he does not breathe, artificial respiration shall be applied. He shall be given oxygen if he breaths heavily. Get medical assistance.



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Compilation date: **03.11.2017**

Page **4 of 9**

In case of skin contact: immediately remove contaminated clothing. Wash with plenty of water and soap for 15 minute. If the symptoms continue, get medical assistance. Clothing and shoes shall be washed before reusing.

4.2 The most important symptoms and effects, acute and delayed

The product is non toxic acute through oral, skin or inhalation exposures.

The product is not hazardous for severe irritation of eyes and skin.

It can be anticipated only nausea after ingestion of substance.

4.3 Indication of any kind of immediate medical attention and necessary special treatments

Follow the instructions given at Section 4.1.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishing means

It does not self-combust. It is not explosive. It is not auto-flammable. It is not flammable.

Can be used as extinguishing agents: normal foam extinguisher, with powder and CO₂ or sand.

5.2 Special hazards caused by the substance or mixture

Not applicable

5.3 Advice for fire-fighters

As the fire can produce toxic thermal decomposition elements, the fire-fighters shall wear self-contained breathing apparatus which shall protect the entire face and function under the requested pressure or overpressure or full protective clothing and masks with filtering cartridge.

5.4. Other information

The residues resulted after fire-fighting shall not be discharged into the water feeding channels.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing, chemical protective gloves and dust mask.

Prevent dust inhalation. Avoid contact with skin and eyes.

Ensure adequate ventilation of the working place.

6.2 Environmental precautions

Try to recover the product, if possible. Do not discharge accidental flows directly into the water flow or sewage.



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Compilation date: **03.11.2017**

Page **5 of 9**

6.3 Methods and material for containing fires and for cleaning

6.3.1. Method for containment of spills.

Absorb spills with absorbent material (earth, wood dust, dolomite).

6.3.2. Method for cleaning spills

If necessary, wash the contaminated area with plenty of water.

6.3.3. Other information related to spills and leakages

Collect the wastes into sealed containers. The wastes are treated as hazardous waste.

6.4 Reference to other sections

Additional advice: See sections 8, 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid physical deterioration of package.

Avoid contact with skin and eyes. Avoid product inhalation.

Wash hands after usage. Do not drink or eat during handling.

7.2 Conditions for safe storage, including possible incompatibilities

Store the products in clean and dry places, with temperature between 15° - 25° C, out of direct sunlight and heat sources. Store the products into polyethylene bags.

No special measures for storage.

7.3 Specific end use

Please see specific end uses at Section 1.2.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

Manufactured **without occupational exposure limit**.

8.1. Control parameters

- respiratory protection: wear dust-proof mask. If the emissions are too large wear safety mask for the entire face with particle filter (NIOSH N100 with filter). For special cases (emergency) when the exposure level is not known use a safety mask for the entire face which works at positive pressure.

- hands protection: wear safety gloves.

- eyes protection: wear safety glasses, or safety mask for the entire face. In the operating area are recommended water sources for washing.

- body protection: wear safety equipment (safety overalls, safety shoes, gloves). Remove contaminated clothing after work.



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Page **6 of 9**

8.2. Exposure control

8.2.1 Exposure control at company level:

General protection and hygiene measures during the works: wash hands before breaks and at closure of working program.

Do not eat, drink or smoke during the works.

Ventilation system: it is recommended a local/ general ventilation system in order to avoid exposure of workers to nuisance. Local ventilation system (exhaust) is preferred because it controls better the emissions and it prevents product dispersion into the working place.

9. CHEMICAL AND PHYSICAL PROPERTIES

9.1. Information concerning the main physical and chemical properties

Appearance	Granulated
Odour	Odourless
Colour	Blue
pH	On product 6.5 – 8.5
Freezing point	Ground 40%, -19...-22°C
Initial boiling point	n.a.
Flash point	n.a.
Evaporation rate	n.a.
Flammability	n.a.
Upper / lower flammability or explosive limits	n.a.
Vapour pressure	n.a.
Relative density	1,1 ± 0,05 g/cm ³
Solubility	n.a.
Auto-ignition temperature	n.a.
Viscosity	n.a.
Explosive properties	n.a.
Oxidative properties	n.a.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

The product is stable in time, stored in normal conditions recommended by the producer (closed places, clean and protected by humidity).

10.3 Possibility of hazardous reactions

Not applicable

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable



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Compilation date: **03.11.2017**

Page **7 of 9**

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

In accordance with the available information, this product is not toxic. However, it must be carefully handled, in accordance with the industrial good practice. The product may have small effects on health for persons sensitive to inhalation and/ or skin absorption and/ or contact with eyes and/ or ingestion.

Corrosion: the product is not corrosive

Skin irritation: singular contact with pure substance provokes irritation. Prolonged skin contact may cause an acute contact inflammatory reaction.

Eye irritation: irritant

Respiratory system: irritant

The relevant toxicological information about health available for the main component of the mixture, the substance „Trisodium orthophosphate” is the following:

Acute toxicity:

LD50: 7400 mg/kg (rat oral)

Chronic effects: non-teratogenic, non-mutagenic, non-carcinogenic, non-toxic for reproduction

Effects on human health: if inhaled, the product may irritate the respiratory system, the symptoms being cough and breathing difficulties. The intense exposure through inhalation may destroy mucous membranes and may cause asthmatic bronchitis, chemical pneumonia or pulmonary oedema. Ingesting the product may cause gastrointestinal irritation. The symptoms may be: nausea, vomit and diarrhoea. Also, it may cause slight burns of the mouth, tract and stomach. If it's alkaline nature, it affects the oesophagus and digestive tract. In contact with skin it may cause irritations. The symptoms include reddening, itching and pain. Irritations depend on exposure duration. More severe effects may appear in case the skin is wet. In contact with eyes it may cause eye irritation even cornea injury.

Chronic exposure: Repeated exposure may cause permanent irritation of skin and eyes.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large accidental spills of product can have a harmful effect on the environment.

The relevant toxicological information about health available for the main component of the mixture, the substance „Trisodium orthophosphate” is:

LC50 (96 hours): 1650 mg/l at fish

The product is soluble into water.

12.2 Persistence and degradability

Information regarding persistence and degradability: not-determined

12.3 Bioaccumulation potential

Bioaccumulation: not-determined

12.4 Mobility

Mobility: not-determined

12.5 Results of PBT and vPvB evaluation

It is not PBT.



SAFETY DATA SHEET

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Commercial name: **Corrosion inhibitor FEELX®**

Edition: **1.0/EN**

Compilation date: **03.11.2017**

Page **8 of 9**

12.6 Other adverse effects

Do not let the product to be discharged into streams, rain water or soil.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Safe handling of wastes: the accidental spills or discharges which cannot be recovered or recycled shall be handled as hazardous wastes. Wastes must be disposed of in compliance with legal norms and regulations regarding environment protection.

Wastes handling: shall be done according to European Union legislation:

- Directive 2006/12/CE concerning wastes.
- Directive 1991/689/CEE concerning hazardous wastes.

14. TRANSPORT INFORMATION

Transport shall be done according to RID/ADR regulations (for railway or road transportation) and IMDG (maritime).

The product is not hazardous as regards Transport Regulation

	ONU Number	Hazard Class	Classification Code
RID	Not applicable	Not applicable	Not applicable
ADR	Not applicable	Not applicable	Not applicable
IMDG	Not applicable	Not applicable	Not applicable
ICAO/IATA	Not applicable	Not applicable	Not applicable

15. REGULATORY INFORMATION

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

- Regulation (CE) no.1907/2006- REACH – concerning the registration, evaluation, authorization and restriction of chemicals;
- Regulation (UE) no. 830/2015 amending Regulation (UE) no.1907/2006.
- Regulation (CE) no. 1272/2008 concerning classification, labelling and packaging of substances and mixtures;
- Regulation no. 528/2012 the making available on the market and use of biocide products.

Authorizations and/ or restrictions for usage: none

Other EU Regulations, ex. SEVESO: it is not a SEVESO substance, does not lead to the depletion of the ozone layer and it is not a persistent organic pollutant.

National Regulations

- Law no.319/2006 – Law of safety and health at work;
- G.D. no. 1218/2006 on laying down minimum requirements for the health and safety at work for the protection of workers from risks related of chemical agents, with subsequent amendments.



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Page **9 of 9**

15.2 Evaluation of chemical security

Chemical Security Report was not elaborated (*not the case*)

16. ADDITIONAL INFORMATION

16.1 Relevant H statements (number and complete description):

H226 – Flammable liquid and vapour;

H272 – May intensify fire; oxidizer.

H302 – Harmful if swallowed;

H314 – Causes severe skin burns and eye damage;

H315 – Causes skin irritation;

H319 – Causes serious irritation of eye;

H412 – Harmful to aquatic life with long-lasting effects.

Recommendations for professional training: does not require special recommendations

Information source: Safety data sheets provided by the suppliers for the chemical products included the mixture and national and European legislation.

16.2 Abbreviations:

CAS = Chemical Abstract Service (unique registration number of each substance)

CLP = Classification, Labelling and Packaging (Regulation CE no 1272/2008)

EC = European Commission

LC50 = lethal concentration of the substance which causes 50 % death rate of sample population

LD50 = lethal dose of substance which causes 50% death rate of sample population

ONU = United Nations Organisation

PBT/ vPvB = persistent, bio-accumulative and toxic/ very persistent and very toxic

REACH = Registration, Evaluation, Authorization on Chemicals (Regulation CE 1907/2006 on registration, evaluation, authorisation and restriction of chemicals)

16.3 Additional information

This information refers only to the above mentioned product and cannot be used for other products. The present document represents only a guide for safe usage of the product and does not offer any guarantee in case of improper usage.