



GALVANIZED PRODUCTS CATALOG

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ABOUT US

İkram Kimya started its commercial life as a new and national brand that it brought to the galvanizing sector in 2001 with its long years of experience and success.

The primary goal of İkram Kimya, which works on galvanizing equipment, is to provide the production and service of galvanizing chemicals, especially in Turkey. Until today, İkram Kimya has succeeded in the production of chemicals, which can be supplied from abroad at high costs and in a long time, in Turkey as high quality products in accordance with international norms. With its sales and after sales support organizations throughout the country, İkram Kimya provides services worthy of its quality.

Affordable Price, Fast and Quality Service!

Working with Turkey's largest galvanizing companies, İkram Kimya has the ability to deliver the products requested by its customers in the desired quantity within days with fast logistics service and produces completely with domestic capital. İkram Kimya prepares and sells chemicals used in galvanizing processes.

PRODUCTS - SERVICES

İkram Kimya offers reliable products and services that can be used in various sectors and fields such as automotive, chemistry and mining. The chemicals used in galvanization processes are mostly imported from Europe; İkram Kimya, which offers products and services with world-class quality in this field in Turkey, continues its business life as a successful company in a short time.

It prepares all of its Galvanizing (SDG Hot Dip Galvanizing) chemicals in its own facilities and delivers them to its customers quickly, contrary to the usual. The chemicals prepared in full compliance with the requirements are packaged appropriately and delivered as soon as possible. From the chemicals used in surface cleaning, which can be customized according to customer requirements, to the production of "flux", which is used at the end of the process and provides adhesion, it offers quality products to all stages related to the galvanizing sector.

ENVIRONMENT

İkram Kimya always works to provide more environmentally friendly production and service with quality production, worker health, safety forms and sensitive environmental measures. It operates by taking preventive measures in air and water pollution, energy consumption, waste management and product recovery at the highest possible level, feeling environmental responsibility for the protection of natural resources, waste reduction and emissions.

İkram Kimya has become an environmentally friendly company in its sector in Turkey that will act in line with the following objectives. Again in line with these objectives, it aims to develop environmental awareness with the participation of all personnel.

- Reducing waste at source.
- To continuously improve the environmental performance of its operations and products.
- Prevent pollution of air, soil and water.
- Comply with environmental legislation and other requirements.
- To protect the environment, to develop environmental awareness, to spread it throughout the country and the world, starting with our immediate surroundings.

TARGETS

İkram Kimya aims to meet the chemical product requirements of galvanizing companies operating in Turkey in the desired specifications and quantities, as well as to increase the quality of production by providing after-sales consultancy, It aims to realize the quality production of chemicals needed in the world market without harming the environment.



QUALITY

"The biggest quality auditor is our customers."

Having its own quality control unit, İkram Kimya works in full compliance with SAP, the ERP "Enterprise Resource Planning" software for product tracking and analysis services.

In supply and sales processes, it proves the care it shows to human health by organizing "MSDS" (Material Safety Data Sheet), that is, Material Safety Data Sheets in international norms and completely by informing its customers and users at an advanced level.

İkram Kimya makes the necessary chemical analyzes, technical qualification requirements with effective technological equipment by making use of chemical laboratories.

Within the scope of consultancy, it inspects the products in the areas of use, identifies possible problems and determines solutions. Thus, customer satisfaction is registered with service quality.

Produces products in the desired quantity and specifications on time.

In product production; all certified and licensed raw materials and materials are used. This ensures long-lasting and healthy use as well as safety. It produces special products suitable for the customer's needs and usage area.

In addition to production and shipping, it also makes a difference with after-sales support and technical consultancy services.

SOME OF OUR PRODUCTS

WE ARE THE ONLY COMPANY PRODUCING GALVANIZING CHEMICALS WITH 100% DOMESTIC CAPITAL,
FOR YOU, SOME OF THOSE PRODUCTS WE HAVE DEVELOPED AS SOLUTIONS:

ACIDIC CLEANING
ALKALINE CLEANING
IRON GUARD
ANTI STEAM
DOUBLE SALT FLUX
SPECIAL SALT NICKEL FLUX
NICKEL TABLET

ACIDIC CLEANING

"Acidic Degreasing Product for Hot Dip Galvanizing Processes"

Features and Applications

ACIDIC CLEANING is a liquid product used in hot dip galvanizing processes that provides good cleaning of metal surfaces containing inorganic acids, surfactants and inhibitors, eliminating the rinse bath between degreasing and etching baths.

Technical Specifications

View	: Yellowish, clear liquid
pH (%1; 20°C)	: ~1.0
Density (20°C)	: ~1.1 gr/cm ³

Usage and Concentrations

For every 1000 liters of bath, 100-120 kg ACIDIC CLEANING is added to the bath half filled with water by stirring carefully. Production can be started after reaching the desired working values.

Mode of Application	: By immersion method
Application Concentration	: %10-15(w/w)
Free Acid Value	: (%1; 5ml; v/v); ~3ml
Free Acid Value	: (w/w): 10-35ml
Implementation Duration	: 5-15 minutes
(application times may vary depending on surface contamination)	
Application Temperature	: 15-80°C

Bathroom Check

- Product additions to the baths are made according to the free acid value.
- Dilute 5ml of the bath solution with 50ml of distilled water and titrate with 0.1N NaOH until the color changes from red to yellow/orange with methylorange indicator.
- The consumption gives the free acid value.
- To bath 1000 liters for each missing value to reach the desired free acid value;
- **ACIDIC CLEANING** is added approximately **4.40kg**.
- Bathrooms must be coated with acid and heat resistant material or made of stainless steel.

ALKALINE CLEANING

"Alkaline Degreasing Product for Hot Dip Galvanizing Processes"

Features and Applications

ALKALINE CLEANING is a product used in hot-dip galvanizing processes that provides good degreasing of metal surfaces containing alkalis, surfactants and inhibitors.

Technical Specifications

View	: White powder
pH (%1; 20°C)	: ~12
Density (20°C)	: ~1.2 gr/cm ³

Usage and Concentrations

For every 1000 liters of bath, 90-100 kg ALKALINE CLEANING is added to the bath filled halfway with water by stirring carefully. Production can be started after reaching the desired working values.

Mode of Application	: By immersion method
Application Concentration	: %10-15(w/w)
Free Alkalinity Value	: (%1; 5ml; v/v); ~3ml
Implementation Duration	: 10-15 minutes
(application times may vary depending on surface contamination)	
Application Temperature	: 60-80°C

Bathroom Check

- Product additions to the baths are made according to the free alkalinity value.
- Dilute 5ml of the bath solution with 50ml of distilled water and titrate with 0.1N HCl until it reaches the turning point with phenolphthalein indicator.
- The consumption gives the free alkalinity value.
- To reach the desired free alkalinity value, add approximately 3.10kg of ALKALINE CLEANING to 1000 liters of bath for each missing value.
- Bathrooms must be coated with acid and heat resistant material or made of stainless steel.

IRON GUARD

"Hydrochloric Acid, Sulfuric Acid, Phosphoric Acid Inhibitor"

Features and Applications

Acids cause undesirable reactions on steel surfaces. They damage system equipment, transport tanks and pumps depending on the duration of contact with metal surfaces, acid concentration and temperature. With the addition of IRON GUARD, the corrosive effect of acid on steel surfaces is relatively reduced. In practice, the product works in acid baths with three important features.

Technical Specifications

View : Red, clear liquid
Density (20°C) : ~1.0 gr/cm³

Usage and Concentrations

For each 1000 liters of bath, 1-1,5 kg IRON GUARD is added to the bath filled halfway with water by stirring carefully. Production can be started after reaching the desired working values.

ANTI STEAM

"Gas Cutter"

Features and Applications

By forming a foam layer on the surface of the bath, it prevents the gases released from spreading in the environment. In addition, it provides ease and speed in removing oil from metal surfaces and cleaning the metal with the surface active content it contains.

Technical Specifications

View : Kırmızı yoğun sıvı
Density (20°C) : ~1.2 gr/cm³

Usage and Concentrations

For every 1000 liters of bath, 1-1,5 kg IRON GUARD is added to the bath filled halfway with water by stirring carefully. Production can be started after reaching the desired working values.

DOUBLE SALT FLUX

"Zinc Ammonium Chloride Salt for Hot Dip Galvanizing Processes"

Features and Applications

After the removal of oxides on the surface by acid cleaning, the most effective way to protect the part until it enters the galvanizing furnace is to coat it with flux. In this process, the flux prevents the passage of oxygen in the atmosphere to the surface of the part for a sufficient period of time. We can list the important events that occur when the surface cleaned by pickling is immediately immersed in flux as follows.

1- When the surface coated with flux is dried at an appropriate temperature, when the steel material is immersed in molten zinc, explosions that may occur due to sudden evaporation of water in the flux are prevented and zinc oxide formation is reduced.

2- At the same time, while the steel material is immersed in zinc, the flux on the surface melts rapidly and moves away from the surface, taking the oxides around it into itself and rapidly moving away from the zinc surface with the evaporation of the starch in the flux, accelerating the coating process and preventing ash adhesion to the surface.

3- The coating of steel material is realized in a shorter time.

4- As a result, it reduces the formation of dross and ash due to time.

Technical Specifications

View : White Powder
Density (20°C) : ~1.0 gr/cm³
Melting Point : 340°C
pH value at 20°C : (400g/1):5

Usage and Concentrations

Recommended density 18-25 °Be

SPECIAL NICKEL SALT FLUX

"Nickel Zinc Ammonium Chloride Salt for Hot Dip Galvanizing Processes"

Features and Applications

This product, which we have specially developed for our customers who use nickel in baths in galvanizing processes, accelerates the process of homogeneous coating of nickel with zinc. After the removal of oxides on the surface with acid cleaning, the most effective way to protect the part until it enters the galvanizing boiler is to coat it with flux. In this process, the flux prevents the passage of oxygen in the atmosphere to the surface of the part for a sufficient period of time. We can list the important events that occur when the surface cleaned by pickling is immediately immersed in flux as follows.

1- When the surface coated with flux is dried at a suitable temperature, when the steel material is immersed in molten zinc, explosions that may occur due to sudden evaporation of water in the flux are prevented and zinc oxide formation is reduced.

2- At the same time, while the steel material is immersed in zinc, the flux on the surface melts rapidly and moves away from the surface, taking the surrounding oxides into it and rapidly moving away from the zinc surface with the evaporation of the starch in the flux, accelerating the coating process and preventing ash adhesion to the surface.

3- The coating of steel material is realized in a shorter time.

4- As a result, dross and ash formation decreases with time.

Technical Specifications

View	: White powder
Density (20°C)	: ~1.0 gr/cm ³
Melting Point	: 365°C
pH value at 20°C	: (400 g/l):5,5

Usage and Concentrations

Recommended concentration 18-24°Be

NICKEL TABLET

"Nickel Pill for Hot Dip Galvanizing Processes"

Features and Applications

NIKEL TABLET, Safe Nickel usage in hot dip galvanizing processes is determined as 0.04% - 0.09%. The ideal usage rate is 0.05%. If this rate is achieved,

The effect of Silicon and Phosphorus on the coating thickness is prevented,

Glossy and smooth coating surface is obtained,

It provides a great advantage to the cost by reducing zinc consumption,

The zinc coating thickness is controlled by reducing the effect of sandalite,

Nickel tablet application gives positive results for the control of coating thickness and a better surface finish in contract materials where different steels are used together with unknown steel composition.

Technical Specifications

View	: Solid
Molecular Weight	: 58,71 g/lit
Resolution	: Soluble in dilute nitric acid. Slightly soluble in hydrochloric and sulfuric acid.
Method of Application	: By individual flotation on the galvanizing bath
Application Concentration:	%0.04-%0.09 (Ideal bath concentration %0.05)
Application Temperature	: 430-600°C

IRON-3-CHLORIDE SOLUTION

Regulation No. 29204, dated December 13, 2014, "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures of the Ministry of Environment and Urbanization".

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY/DISTRIBUTOR**1.1. Substance/Mixture identity**

Product name : IRON-3-CLORIDE SOLUTION
Chemical name : FeCl₃
Product number : DD.44.19
CAS number : 7705-08-0
EC number : 231-729-4

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

Designated uses: Treatment and drinking water plants coagulant, used as a surface cleaner for metals.

Not recommended : Not recommended No specific non-recommended uses have been identified.,

1.3. Information of the supplier of the safety data sheet

Supplier : İKRAM KİMYA SAN ve TİC LTD ŞTİ
Topçular Mah. Rami Kışla Caddesi Yöntem Vaytaş Plaza No:58/60
Interior Door No:14 Eyüpsultan/İstanbul/Turkey

Contact person : mustafa@ikramkimya.com

Manufacturer : İKRAM KİMYA SAN ve TİC LTD STİ
Topçular Mah. Rami Kışla Caddesi Yöntem Vaytaş Plaza No:58/60
Interior Door No:14 Eyüpsultan/İstanbul/Turkey

Emergency telephone: National emergency telephone number
Emergency Health Services : 112
UZEM (National Poison Advisory Center) : 114

SECTION 2: HAZARD IDENTIFICATION**2.1. Classification of the substance or mixture Classification T.C. 28848**

Physical damages: Not classified as harmful

Health hazards : Acute Tox. 4- H302 Skin Toxic. 2- H315 Eye irritation, 1- H318

Environmental hazards: Not classified as harmful

2.2. Label elements

EC number: 231-729-4

Hazard sign:



The word warning: Danger

Hazard Statements: H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. .

Precautionary statements: P270 Do not eat, drink or smoke while using this product.

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

P301+P312 IF SWALLOWED: If you feel unwell, call NATIONAL POISON ADVICE CENTER PHONE 114 or a doctor/physician.

P302+P352 IN CONTACT WITH SKIN: Wash with plenty of soap and water

P305+P351+P338 IN CASE OF CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses if fitted and easy to do so. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

Contents : Iron(III)Chloride

2.3. Other losses

The product does not contain any substances classified as PBT or vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Iron(III)Chloride : %38-42

CAS number : —

Classification : Acute Tox. 4- H302 Skin Irritation 2- H315 Eye Damage 1- H318

The full text of the hazard statements is given in Section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

General information: If discomfort persists, seek medical advice. Show this Safety Data Sheet to medical personnel.

Inhalation : MRemove the exposed person to fresh air and keep warm and rest in a position where he/she can breathe easily. Loosen tight parts of clothing such as collars, ties or belts. Seek medical attention if symptoms are severe or persistent.

Ingestion: Rinse mouth thoroughly with water. Give several glasses of water or milk. Because vomiting can be dangerous, stop vomiting if the victim feels uncomfortable. Never give anything by mouth to an unconscious person. Place the unconscious person on their side in a first aid position and allow breathing to take place. Keep the victim under observation. Get medical help.

Skin contact: Wash with water.

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Eye contact: Rinse immediately with plenty of water. Do not rub eyes. Remove any contact lenses and open eyelids wide. Continue flushing for at least 15 minutes and seek medical advice.

First aid protection: First aid personnel should wear appropriate protective equipment when performing rescues.

4.2. Important acute and subsequent symptoms and effects

General information: The severity of the symptoms described may vary depending on the concentration and duration of exposure.

Inhalation: There are no known specific symptoms.

Ingestion: May cause discomfort if swallowed. Abdominal pain. Nausea, vomiting.

Skin contact: Redness. Skin irritation.

Eye contact: Causes serious eye damage. Following overexposure, the following symptoms may occur: Pain. Redness.

4.3. First signs of the need for medical intervention and specialized treatment

Information for the doctor: Give symptomatic treatment.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Fire extinguishers

Suitable extinguishing agents: The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water mist.

Unsuitable extinguishing agents: Use a suitable extinguishing agent to surround the fire.

5.2. Special hazards arising from the substance or mixture

Special hazards: Containers may explode violently when heated due to excessive pressure building up inside. This product is toxic.

Harmful combustion products: Thermal decomposition or combustion products may include the following substances: Toxic gases and vapors.

5.3. Recommendations for fire-fighting teams

Protective measures to be taken during fire extinguishing: Avoid inhalation of fire gases or vapors. Evacuate the area. Cool heat-exposed containers with water spray and move them away from the fire area if there is no risk. Cool containers exposed to flames with water until the fire is extinguished. If the leak or spill has not ignited, disperse vapors by spraying water and protect personnel attempting to seal the leak. Contain flowing fire extinguishing water by limiting and preventing its entry into sewers and watercourses. If there is a danger of water contamination, notify the relevant authorities.

Special protective equipment for firefighters:

Wear positive pressure self-contained closed-circuit breathing apparatus and appropriate protective clothing. Firefighter clothing (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical accidents.

SECTION 6: PRECAUTIONS AGAINST ACCIDENTAL RELEASE

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Rubber or PVC gloves, Safety glasses/mask, Rubber boots, Acid/chemical resistant overalls should be used. No action should be taken without proper training or involving personal danger. Avoid contact with skin and eyes, do not inhale vapors, ventilate the work area.

6.2. Environmental measures

Çevresel önlemler: Environmental precautions: Avoid spillage into drains or watercourses or onto soil. Avoid spillage into aquatic environment. Apply water spray to reduce vapors. Isolate to prevent contamination of soil and surface water.

6.3. Methods and materials for preservation and cleaning

Spill cleanup methods: Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Clean up spillage immediately and dispose of waste safely. Absorb the spillage with inert materials such as sand, soil, etc. and place in special drums and ventilate the area thoroughly. Small Spills: Collect the spillage. Large Spills: Absorb the spillage into a non-flammable absorbent material. Contaminated absorbent material may present similar hazards as the spilled material. Collect waste and place in appropriate waste disposal containers and seal tightly. Label containers containing waste and contaminated materials and remove from the area as soon as possible. Flush the contaminated area with plenty of water. Decontaminate yourself thoroughly after handling a spill. See Section 13 for disposal of waste.

6.4. References to other chapters

References to other sections: For personal protection, see Section 8. For additional information on health hazards, see Section 11. For additional information on ecological hazards see Section 12. For waste disposal, see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for use: Read and follow the manufacturer's recommendations. Wear protective clothing as shown in Section 8 of this Safety Data Sheet. Keep away from food, drink and animal feed. Handle all packages and containers carefully to minimize spills. Avoid eye and skin contact and keep the working environment well ventilated. Keep containers tightly sealed when not in use. Avoid the formation of fog. Do not handle until all precautionary statements have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene: Wash skin immediately if it becomes soiled. Remove contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including incompatibilities

Storage precautions: Store only in the original container. Closed storage areas should be dry, cool and well ventilated. Full containers must be closed and kept in an upright position. Protect containers from damage. Can be stored and transported in plastic such as polyester, polypropylene, polyethylene, PVC or ebonite coated steel tanks.

Storage class: Toxic storage

Shelf life: 2 years

7.3. Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits: TLV: (soluble iron salts, as Fe) 1 mg/m³; (ACGIH 2004).

A TLV is recommended to minimize the possibility of respiratory and skin irritation due to exposure to aerosols or fumes of soluble iron salts.

8.2. Exposure controls

Protective equipment:



Appropriate engineering controls: Ensure adequate ventilation. Observe the occupational exposure limit for the product and ingredients.

Personal protection: Avoid direct contact with eyes or skin.

Inhalation as vapors or particles should be avoided. Use only in well-ventilated areas.

Contaminated clothing should be removed immediately. Hands should be washed at the end of work and during breaks.

No food should be eaten or drunk while using this substance.

Eye/Face protection: Wear protective goggles or face shield that covers the face tightly and protects against splashes of chemicals. Safety goggles conforming to TS/EN 166, full face shield must be worn when handling the product. In case of respiratory hazard, a full-face respirator may be necessary.

Hand protection: Wear protective gloves. The most suitable glove should be selected in consultation with the glove distributor/manufacturer who can provide information on the puncture time of the glove material. To protect hands against chemicals, gloves must comply with TS/EN 374 Standard. Hand contact should be prevented by wearing PVC gloves in accordance with TS/EN 374. According to the data specified by the glove manufacturer, check that the gloves maintain their protective properties throughout use and replace the gloves as soon as possible if any deterioration is detected.

It is recommended to change gloves frequently.

Other skin and body protection: Wear suitable clothing to prevent repeated or prolonged skin contact. Suitable protective clothing covering the entire body, e.g. PVC-coated clothing, acid-resistant coveralls, rubber or rubber boots, should be worn.

Health precautions: Wash hands thoroughly after handling. Wash hands at the end of each shift and before eating, smoking and going to the toilet. Do not eat, drink or smoke while using this product.

Respiratory protection: Ensure that all respiratory protective equipment is fit for its intended use and is 'CE' marked. Ensure that the respirator is securely fitted and change the filter regularly. Gas filters and combined filter cartridges must comply with TS/EN 14387. Full face masks with replaceable filter cartridges must comply with TS/EN 136 Standard. Half or quarter facepiece respirators with replaceable filter cartridges must comply with TS/EN 140 Standard.

Environmental exposure controls: Containers should be kept tightly sealed when not in use. Check that ventilation emissions and work process equipment comply with the requirements of environmental protection legislation. In some cases, technical modifications to fume scrubbers, filters or process equipment are necessary to reduce emissions to acceptable levels. Obligations under existing legislation for the protection of the environment must be fully met.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

View	: Dark brown liquid
Odor	: Slight acid odor
pH	: <2,0
Melting point/freezing point	: -12°C
Initial boiling point and boiling range	: 120 °C
Flash point	: 160°C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 40 mm Hg @ 35°C
Volumetric density	: 1,43 ± 0,13 kg/m ³
Resolution(s)	: Water soluble.
Dispersion coefficient	: Unknown.
Explosive properties	: Not considered explosive.
Oxidizing properties	: Not applicable.

SECTION 10: STABILITY AND REACTION

10.1. Reaction

Reaction: There are no known reactive hazards associated with this product.

10.2. Chemical stability

Stability: Stable at normal ambient temperatures and when used as recommended. Stable under prescribed storage conditions.

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10.3. Possibility of harmful reaction

Possibility of harmful reaction: There are no known possible hazardous reactions.

10.4. Situations to avoid

Situations to avoid: There are no known situations that are likely to result in a hazardous situation.

10.5. Harmful decomposition products

Hazardous decomposition products: No decomposition when used and stored in accordance with recommended conditions. Thermal decomposition or combustion products may include the following substances: Toxic gases and vapors.

SECTION 11: TOXICOLOGICAL DATA

11.1. Information on toxic effects

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 4- H302 Harmful if swallowed.

ATE oral (mg/kg) 1.190,47

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin abrasion/irritation

Animal data Irritant.

Serious eye damage/irritation

Eye Damage 1- H318 Causes serious eye damage.

Respiratory tract sensitization

Based on available data, the classification criterion is not met.

Skin sensitization

Based on available data, the classification criterion is not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data, the classification criterion is not met.

IARC carcinogenicity None of the components are listed or exempted.

Reproductive system toxicity

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

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

Specific target organ toxicity - single exposure

BHOT- single exposure not classified as a specific target organ toxicant after single exposure.

Specific target organ toxicity - repeated exposure

BHOT - repeated exposure - is not classified as a specific target organ toxicant after repeated exposure.

Aspiration damage

Aspiration hazard:Based on available data the classification criteria are not met.

General information

The severity of the symptoms described may vary depending on the concentration and duration of exposure.

Inhalation

There are no known specific symptoms.

Swallowing

May cause discomfort if swallowed. Abdominal pain. Nausea, vomiting.

Contact with skin

Redness. It irritates the skin.

Eye contact

Causes serious eye damage. Following overexposure, the following symptoms may occur: Pain. Flushing of the eyes with plenty of water. Redness.

Exposure pathway

Ingestion Inhalation Skin and/or eye contact.

Target organs

There are no known specific target organs.

Toxicological information about the components

Iron(III)Chloride

Acute toxicity - oral

ATE oral (mg/kg) 500,0

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not considered hazardous to the environment.

However, large or frequent rashes may have harmful effects on the environment.

12.1. Toxicity

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

Acute toxicity - fish: LC₅₀, 96 hours: 75,6 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates: EC₅₀, 96 hours: 9,6 mg/l, Water flea

Acute toxicity - microorganisms: 30 days: 1421,3 mg/l, Algae

12.2. Persistence and degradability

The degradability of the product is unknown.

12.3. Bioaccumulation potential

Bioaccumulation potential: No relevant data on bioaccumulation.

Coefficient of dispersion: Unknown.

12.4. Mobility in soil

Mobility: No available data.

12.5. Results of PBT and vPvB assessment

Results of the PBT and vPvB assessment: The product does not contain any substances classified as PBT or vPvB.

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12.6. Other negative effects

Other negative effects are unknown.

SECTION 13: DISPOSAL INFORMATION

13.1. Waste treatment methods

General information: Waste generation should be minimized or avoided wherever possible. Where possible, reuse or recycle products. This material and its container must be disposed of safely. When handling waste, the safety precautions for handling the product must be observed. When empty containers are handled, care should be taken to clean and wash them thoroughly. Empty containers or product residues that may remain in their layers can be potentially hazardous.

Waste treatment methods: Dispose of leftover and non-recyclable products with the help of a licensed waste disposal organization. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in appropriate designated containers and labeled according to their contents. When recycling is not feasible, only incineration or burial should be practiced.

SECTION 14: TRANSPORTATION INFORMATION

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

UN No. (ADR/RID)	2582
UN No. (IMDG)	2582
UN No. (ICAO)	2582
UN No. (ADN)	2582

14.2. Appropriate UN transportation name

Not applicable.

Proper shipping name (ADR/RID)	IRON(III) CHLORIDE SOLUTION
Proper shipping name (IMDG)	IRON(III) CHLORIDE SOLUTION
Proper shipping name (ICAO)	IRON(III) CHLORIDE SOLUTION
Proper shipping name (ADN)	IRON(III) CHLORIDE SOLUTION

14.3. Transport hazard class(es)

There are no required transportation warning signs.

ADR/RID class	8
ADR/RID secondary risk	8
ADR/RID classification code	C1
ADR/RID label	8
IMDG class	8
IMDG secondary risk	8
ICAO class/division	8
ICAO secondary risk	8
ADN class	8
ADN secondary risk	8
Shipping labels	



14.4. Packaging group

Not applicable.

IMDG packaging group	III
ADN packaging group	III
ICAO packaging group	III

14.5. Environmental damages

Environmentally hazardous/marine pollutant: No.

14.6. Special precautions for the user

Not applicable.

EmS	F-A, S-B
ADR shipment category	3
Hazard Identification	80
Number (ADR/RID)	
Tunnel restriction code	(E)

14.7. Bulk transportation according to MARPOL 73/78 annex II and IBC code

Bulk transportation according to MARPOL 73/78 annex II and IBC code: Not applicable.

SECTION 15: REGULATORY INFORMATION

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

National regulations: Republic of Turkey Ministry of Labor and Social Security, Regulation on Health and Safety Measures at Work with Chemical Substances, dated August 12, 2013, numbered 28733.

T.R. Ministry of Labor and Social Security, July 2, 2013, No. 28695, Regulation on the Use of Personal Protective Equipment in Workplaces.

Republic of Turkey Ministry of Labor and Social Security, Law No. 6331, dated June 30, 2012, on Occupational Health and Safety.

T.C. Ministry of Labor and Social Security, Regulation on Health and Safety Measures in Work with Carcinogenic and Mutagenic Substances, dated August 6, 2013, numbered 28730.

Ministry of Environment and Urbanization, Regulation on Classification, Labeling and Packaging of Substances and Mixtures dated December 11, 2013 and numbered 28848.

Republic of Turkey Ministry of Environment and Urbanization, dated April 2, 2015, numbered 29314, Waste Management Regulation.

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended).

Commission Regulation (EU) No 453/2010 of May 20, 2010.

There is no Chemical Safety Assessment application.

SECTION 16: OTHER INFORMATION

11 December 2013 dated and 28848 numbered regulation on classification conditions: Acute Tox. 4- H302: Eye Damage 1- H318: Skin Irritation 2- H315: Calculation method.

All hazard statements: H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

TECHNICAL SHEET**IRON (III) CHLORIDE**

CHEMICAL NAME	IRON (III) CHLORIDE SOLUTION
TRADE NAME	IKRAM KİMYA IRON(III)CHLORIDE
CHEMICAL FORMULA	FeCl ₃
MOLECULE WEIGHT	162,2 gr / mol

PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Unit	Specification
Appearance	-	Dark brown liquid
FeCl ₃	% (w / w)	40 ± 2
Fe (II)	(m/m) % Fe III	max. 2,5
Density (20 ° C)	gr/cm ³	1,435 ± 0,05
Manganese	(m/m) % Fe III	max. 1
Insoluble matter	(m/m) % Fe III	max. 0,2
Arsenic	mg / kg Fe (III)	max. 20
Cadmium	mg / kg Fe (III)	max. 1
Chromium	mg / kg Fe (III)	max. 50
Mercury	mg / kg Fe (III)	max.0,3
Nickel	mg / kg Fe (III)	max. 60
Lead	mg / kg Fe (III)	max. 35
Antimony	mg / kg Fe (III)	max. 10
Selenium	mg / kg Fe (III)	max. 10

It is arranged according to TYPE 2.

USAGE AREAS

It is used as a coagulant in drinking water treatment plants.

PACKAGING

Shipments are made in bulk via Polyethylene, PVC, PTFE or plastic-coated carbon steel tankers





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