

KC 041 INOX CLEAN

1. IDENTITY OF THE SUBSTANCE/MIXTURE AND THE COMPANY/DISTRIBUTOR

1.1.Substance/Mixture ID

Trade Name : KC 041 INOX CLEAN

Product SDS Code : 152

Description : Mixture – Industrial Cleaning Product

1.2.Designated Uses and Not Recommended Uses of the Substance or Mixture

1.2.1 Designated Uses

It is used as a stainless surface cleaner and polisher.

1.2.2 Non-Recommended Uses

Information not available

1.3.Safety Data Sheet Supplier's Information

1.3.1. Supplier/Manufacturer Information

Company Name : KRL CHEMICAL INDUSTRY AND TRADE LTD. STI.

Address : Tuzla Kimya Sanayicileri OSB (Tuzla Chemical Manufacturers Organized Industrial Site) Kafkas
Caddesi No: 6 Tuzla/ İSTANBUL / TURKEY

Phone : +90 216 504 94 70-79

Fax : +90 216 504 94 97

E-mail address informing about the Safety Data Sheet

info@krlkimya.com

1.4.Emergency Phone Number

Company Hotline : +90 216 504 94 70-79

Emergency First Aid Center : 112

Ministry of Health National Poison Information Center (UZEM) : 114

Fire brigade : 112

2. IDENTIFICATION OF HARMFULNESS

2.1 Classification of Substance or Mixture:

2.1.1 Hazard Classification (RG .-23.06.2017- 30105)

Local regulations3 KKDİK and EU directives 1272/2008/EC [CLP2/GHS3] are classified as harmful.

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Eye Est.2 ; H319: Causes serious eye irritation.

Vol. Tah.2; H315: Causes skin irritation.

2.2 Label Elements

2.2.1 Labeling (OG6.-23.06.2017- 30105)

Product ID

Components that determine the danger for the label

- 2-(2-butylethoxy)ethanol

Signs of Harm

- GHS07



NOTE: SINCE IT IS CONCENTRATED, ITS SOLUTION DOES NOT CARRY DANGER.

Warning Word

- ATTENTION

Hazard Statements

H319: Causes serious eye irritation.

H315: Causes skin irritation.

Precautionary Statements

General

Measure

P264 Wash thoroughly with water after handling.

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

Intervention

P305+P351+P338 IN CASE OF EYE CONTACT: Rinse carefully with water for a few minutes.

If it is attached and easy to do, remove the contact lenses. Continue to rinse.

P337+P313 If eye irritation persists: Seek medical attention/care.

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

P332+P313 In case of skin irritation: Seek medical attention.

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Storage

Disposal

Additional Hazard Information Statements

2.3 Other Damages

Information not available

3. INFORMATION ABOUT THE COMPOSITION/INGREDIENTS

3.1 Items

Hazardous substances: Mixture

SUBSTANCE OR COMPOUND NAME	% Concentration (w/w) (a/a)	Cas No	EC No	CLASSIFICATION
				KKDIK/CLP Class, H Expressions *
Ethoxylated Fatty Alcohols- Nonionic Surfactant	%5 - 15	68551-12-2	-	Acute Tox.4: H302 Eye Hsr.1: H318
2-(2-butylethoxy)ethanol	%15-30	112-34-5	203-961-6	Acute Tok.4 : H332 Acute Tok.4 : H312 Acute Tok.4 : H302 Eye Est.2 : H319Skin Tah.2 : H315

Notes: Not specified

M-Factor: Unspecified

Specific Concentration Limits

3.1.1 Additional warnings:

All of the harm definition sentences on the subject are given in chapter 16.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

4.1.1 General

In the event of an emergency, consult a doctor by showing this safety data sheet.

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4.1.2 Respiration:

Respiratory exposure is not expected.

If he has difficulty breathing, give oxygen. Keep the airway open. Carry the unconscious person in a side position.

Seek medical attention immediately.

4.1.3 Contact with Skin:

Remove dirty clothing immediately and wash the skin with plenty of water for 30 minutes. Wash your contaminated clothes before using them again.

If skin irritation persists, consult a doctor immediately.

4.1.4 Eye Contact:

Rinse eyes with clean water for at least 15 minutes without delay. Thorough washing of all parts of the eye

To be sure, the eyelids should be kept open, and the lower and upper lids should be lifted occasionally.

If there are contact lenses, remove them. Do not rub the eyes. Seek medical attention immediately.



4.1.5 Swallowing:

Do not induce vomiting on the victim. If the patient vomits, keep the airway open. If the victim is conscious, give a small amount of water. In case of exposure to the product, remove the victim to fresh air and place him in a resting position. Seek medical attention immediately.

4.2 Important Acute and Subsequent Symptoms and Effects

Eye: Causes severe eye irritation.

On the skin: It causes skin irritation.

If inhaled: No information available.

If Swallowed: No information available.

Long-Term Effects: No information available.

4.3 First Signs of the Need for Medical Attention and Special Treatment

Intervene according to the symptoms.

5. FIRE FIGHTING MEASURES

5.1 Fire Extinguishers:

Suitable Extinguishing Environments: Use suitable extinguishers in the environment.

Unsuitable Extinguishing Environments: No information available

5.2 Special Damages Caused by the Substance or Mixture:

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Combustion-Related Damages : In cases where the product is burned, toxic gases such as Carbon dioxide (CO₂) and Carbon monoxide (CO) may occur.

Explosion Related Damages : HeatingIt can cause expansion or decomposition, causing containers to break down violently.

5.3 Advice for Firefighting Teams:

During firefighting, personnel on duty should use respirators and chemical protective clothing.

Fire Fighting Instructions: Cool tanks and product packaging with water spray. If possible, fight a fire from a protected location.

Protective Equipment for Firefighting Personnel: During firefighting, personnel in charge should use a positive pressure, full-face mask respirator with NIOSH-approved tube, completely independent of the surrounding air, and protective clothing that covers the whole body resistant to chemicals, heat and fire covering the whole body.

5.4 Other Information

Avoid polluting the environment by using more fire extinguishers than necessary. Firefighting residues should not be allowed to reach sewage and groundwater.

6. PRECAUTIONS AGAINST ACCIDENTAL SPREAD

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Observe exposure control and personal protective measures detailed in section 8.

6.1.1 For Non-Emergency Personnel

Protective Equipment: Use appropriate protective equipment to prevent contamination of skin, eyes, personal clothing. See section eight of this form.

Emergency Procedures: Consult a specialist for emergency procedures. Evacuate the accident site. Use personal protective equipment. Make sure there is good ventilation. Do not touch or touch the product until all safety precautions have been thoroughly read and understood.

6.1.2 For Emergency Responders

Protective Equipment: Wear appropriate protective clothing, rubber boots, sturdy rubber gloves, and eye/face protective equipment. Wear protective equipment.

Emergency Procedures: Keep vulnerable people away. Make sure there is good ventilation. Remove non-relevant personnel, free up space.

6.2 Environmental Precautions:

Improper discharge into the environment may result in soil and water contamination. Prevent it from mixing with sewage / surface water / groundwater. If it mixes with water or sewage, inform the competent authorities and inform the authorities.

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6.3 Methods and Materials for Containment and Cleaning:

6.3.1 Spill Control Advice

Collection of spilled product should be carried out by specialized personnel. Isolate the area where the material is poured.

6.3.2 Advice on cleaning up a spill

Impregnate with inert liquid binding material (sand, sawdust, soil). Collect and recycle or dispose of debris in suitable sealed containers. Dispose of the spill according to local regulations.

6.4 References to Other Sections:

Get information on safe use from chapter 7. Find information on personal protective equipment in chapter 8. Get information on liquidation from section 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Working procedures in accordance with Article 7 of the Regulation on Health and Safety Measures in Working with Chemical Substances published in the Official Gazette dated 12.8.2013 and numbered 28733 and Article 7 of the Regulation on Health and Safety Measures in Working with Carcinogenic or Mutagen Substances published in the Official Gazette dated 6.8.2013 and numbered 28730 regarding the measures to be taken in the works and workplaces where hazardous chemicals are worked in order to ensure the protection of health, safety and the environment and organizational measures should be acted upon, care should be taken to plan the working procedures in the workplace and to take organizational measures.

It is imperative to comply with industrial hygiene standards in order to prevent ingestion of chemicals during use, contact with eyes and skin.

Wash your hands with plenty of soap and water after work. It should be ensured that there is good ventilation in the workplace. Prevent contamination on your clothes, skin and eyes. Use in an environment with adequate ventilation.

Smoking, eating and drinking anything should be prohibited in the application area.

7.1.1 Advice on General Handling:

7.1.1.1 Warnings for Safe Handling

Keep fire-fighting equipment ready.

7.1.1.2 Environmental Warnings

Prevent it from mixing with sewage / surface water / groundwater.

If it mixes with water or sewage, inform the competent authorities and inform the authorities.

7.1.2 Advice on General Occupational Hygiene

It is imperative to comply with industrial hygiene standards in order to prevent ingestion of chemicals during use, contact with eyes and skin.

Wash your hands with plenty of soap and water after work. Avoid skin and eye contact.

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It should be ensured that there is good ventilation in the workplace.
Smoking, eating and drinking anything should be prohibited in the application area.
Contaminated clothing and protective equipment must be removed before entering the dining areas.

7.2 Conditions for Secure Storage, Including Disputes

7.2.1 Storage Conditions

The tank should be cleaned regularly, ventilation system, temperature and humidity checks should be carried out regularly.

Keep away from food, beverage and animal feeding areas. Follow the general rules for storing chemicals.

It should be stored at room temperature in a cool, dry place.

The tank with substances must be cleaned regularly and well ventilated.

Under Normal Conditions, it is most convenient to store indoors at room temperature.

7.2.2 Incompatible Substances

Keep away from strong solvents and excessive heat. Do not mix with other products or chemicals.

7.3 Specific End Uses: Information not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational Exposure Limit Values

8.1.1.1 According to the Regulation on Health and Safety Measures in Working with Chemical Substances, occupational exposure limit values are: Information Not Available

8.1.1.2 According to the Regulation on Health and Safety Measures in Working with Carcinogenic or Mutagen Substances, occupational exposure limit values are: Information Not Available

8.1.1.3 Other Occupational Exposure Limit Values: Information Not Available

8.1.1.4 According to the Regulation on Health and Safety Measures in Working with Chemical Substances, biological limit values are: Information Not Available

8.1.1.5 Other biological limit values: Information Not Available

8.1.2 If air pollutants are formed when the substance or mixture is used as intended, the occupational exposure limit values and/or biological limit values applicable to them are: Information Not Available

8.1.3 Where the control band approach is used to decide risk management measures for specific uses, sufficient information to ensure effective management of risk and the context and limitations of the specific control band recommendation: Information Not Available

8.2 Exposure controls

The equipment to be used in places where personal protection is required and appropriate protection methods are defined in accordance with the "Regulation on the Use of Personal Protective Equipment in the Workplace" dated

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02.07.2013 and numbered 28695 and the "Personal Protective Equipment Regulation" dated 29/11/2006 and numbered 26361. Make sure that personal protective equipment is used in accordance with the relevant regulations and conditions.

8.2.1 Appropriate Engineering Controls

Where the employer is appropriate to prevent the risk of exceeding the occupational exposure limit values of the product;

- According to the "Regulation on Health and Safety Measures in Working with Carcinogenic and Mutagen Substances" (RG.-06.08.2013-28730) and
- According to the "Regulation on Health and Safety Measures in Working with Chemical Substances" (RG.-12.08.2013-28733),

Carry out studies that will allow them to carry out risk assessments regarding the safety and health of workers arising from the substance or mixture.

The recommendations given here are general guidelines for the use of this substance. Since specific working environments and material handling applications can vary, safety rules must be developed for each application.

Make sure that the working environment is very well ventilated and cleaned to avoid the risk of exceeding the occupational exposure limit values of the product.

Install the air filtration system in accordance with the NIOSH7 and CEN8 systems where necessary.

Design the usage area in such a way as to prevent the product from contaminating the environment. See Section 7.

8.2.2 Individual Protective Measures (Personal Protective Equipment/Equipment)

Use EN and NIOSH-approved equipment.

8.2.2.1 General Protection and Hygiene Measures

Personnel who use this substance, who are at the workplace where the substance is located for maintenance and repair, and who are responsible for the storage, handling and disposal of the substance should be trained.

General rules should be followed when working with chemical substances. Use only in well-ventilated areas.

Keep away from foodstuffs, beverages and animal feed. Do not take contaminated clothing out of the workplace.

Wash your hands at the end of work and when you take a break from work.

Do not eat or drink any food while using this substance.

Make sure the eyewash unit and Safety body shower are within easy reach.

8.2.2.2 Eye/Face Protection

NIOSH (USA) or EN (EU) with side protectors that fit snugly to the eyes in areas with a high risk of splashing

Use safety glasses in accordance with the standards. Do not wear contact lenses.



8.2.2.3 Protection of the Skin



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8.2.2.3.1 Hand Protection

Do not come into contact with the skin for a long time. Use gloves during application.

8.2.2.3.2 Protection of the Body

Under normal circumstances, body protection is not required. Rinse the place on your body. Use chemical-resistant, dust-proof, liquid-proof protective clothing with long sleeves and long legs that hug the body tightly.

- Eyewash unit.
- Make sure the safety body shower is easily accessible.

8.2.2.4 Respiratory precautions

Under normal circumstances, it is not necessary to use respiratory protection. When necessary, wear respiratory protection in accordance with regulations and standards.

Use respirators and equipment that have been tested and approved according to relevant official standards such as NIOSH (United States) or CEN (European Union).

8.2.2.5 Thermal Damages

When specifying the protective equipment to be worn for heat-damaging materials, pay special attention to the structure of the personal protective equipment.

8.2.3 Environmental Exposure Controls

Obligations under the current legislation for the protection of the environment must be fully fulfilled.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance- Physical State: Liquid / Transparent

Color: Colorless

Odor: Characteristic

PH (10%): 7-9

Flammability: The product does not ignite spontaneously.

Density (g/cm³): 1.00 ± 0.02

Decomposition Temperature °C: No information available

Explosive Properties: Non-explosive

Oxidizing Properties: It does not show oxidizing properties

9.2 Other Information

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Miscibility: No information available

Oil Solubility (Solvent - specify oil): No information available

Water Solubility: Soluble in water.

10. STABILITY AND RESPONSE

10.1 Reaction

When used and stored in accordance with the instructions, it is stable under normal conditions.

10.2 Chemical Stability

When used and stored in accordance with the instructions, it is stable under normal conditions.

10.3 Possibility of Harmful Reactions

No information available.

10.4 Situations to Avoid

No information available.

10.5 Substances to avoid

Do not mix with other products or chemicals.

10.6 Harmful Decomposition Products:

In cases where the product is burned, toxic gases such as Carbon dioxide (CO₂) and Carbon monoxide (CO) may occur.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxic effects

The information in this section is consistent with the classification of the substance or mixture. Fields that say no information indicate that there is no definitive information obtained in the researches.

11.1.1 Acute Toxicity

No acute toxicity has been observed for the product.

11.1.2 Skin Abrasion/Irritation

It causes irritation on the skin in contact for a long time.

11.1.3 Serious Eye Damage/Irritation

It causes serious damage to the soft tissues of the eye. It causes serious eye damage.

11.1.4 Respiratory Tract or Skin Sensitization

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There is no effect of Respiratory Tract or Skin Sensitization.

11.1.5 Germ Cell Mutagenicity

It does not contain substances with germ cell mutagenicity.

11.1.6 Carcinogenicity

As specified in 29 CFR 1910.1200, this product has no information on the content of carcinogenic substances as listed in NTP9, IARC10 or OSHA11.

11.1.7 Reproductive Toxicity

It does not contain substances with reproductive toxicity.

11.1.8 Specific Target Organ Toxicity-Single Exposure (BHOT-Tek)

There is no information on the substance content with a specific Target Organ Toxicity-Single Exposure effect.

11.1.9 Specific Target Organ Toxicity-Repeated Exposure (BHOT-Repeated)

There is no information on the substance content with a specific Target Organ Toxicity-Repeated Exposure effect.

11.2 Aspiration Harm

None.

11.3 Information on possible routes of exposure

In Eye Contact: Causes serious eye irritation.

In Contact with Skin: It causes skin irritation.

If inhaled: Information not available

(Digestive) If Swallowed: No information available

Target Bodies: No information available

Medical Symptoms: Information not available

Medical Warnings: Information not available

11.4 Delayed or Immediate Effects as well as Chronic Effects with Short and Long-Term Exposure

None

11.5 Other Information

None

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

The product is not harmful to aquatic organisms. Even if diluted, it can have a corrosive effect.

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Neutralization is possible in the wastewater treatment plant.

12.2 Persistence and Degradability:

In the respective environmental environment, the potential for persistence: Information Not Available

Degradability Potential by Other Processes such as Oxidation or Hydrolysis: No Information Available

Half-Life Related to Decay: No Information Available

Impact on Wastewater Treatment Plants: No Information Available

12.3 Bioaccumulative Potential:

There are no test results for the evaluation of the Bioaccumulation potential of this product.

Potential of the product to accumulate in the biological environment (biota): No Information Available

Log Kow or BCF value: Information Not Available

12.4 Mobility in Soil:

When determining environmental mobility, take into account the chemical and physical properties of the product. (See 9. Section)

12.5 Results of the PBT and vPvB assessment

According to Annex XIV of Regulation EC 1907/2006 on REACH12: The product does not contain a substance that meets the criteria of PBT (Persistent/ bioaccumulative/toxic) or vPvB (very persistent/bioaccumulative).

12.6 Other Negative Effects:

Information not available

13. DISPOSAL INFORMATION

13.1 Waste Processing Methods:

Waste and used packaging must be disposed of in accordance with official regulations. Prevent it from mixing with surface and underground water, drinking water sources, stagnant and flowing water, sewage.

Do not dispose of the product without checking the waste regulations.

13.2 Safe Disposal:

Disposal of waste should be carried out in accordance with official regulations, taking into account the place of use, as chemical additions, process or other modification of this substance may make the waste management information of the substance incomplete, incorrect or inappropriate to provide in this safety data sheet.

Do not allow the product to be disposed of with household garbage. In such cases, inform the official authorities.

13.3 European Waste Catalogue and Hazardous Waste List Number:

The allocation of waste identification numbers / waste definitions should be made in a way that is specific to the industry and processes according to EWC13.

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14. TRANSPORTATION INFORMATION

14.1. UN Number

ADR, IMDG, IATA : Since the product is not classified as a hazard, there is no special transportation requirement.

14.2. Proper UN Transport Name : Since the product is not classified as a hazard, there is no special transportation requirement.

ADR

IMDG, IATA

14.3. Transportation Hazard Class(es) : Not relevant.

ADR, IMDG, IATA

Class

14.4. Packaging Group : Not relevant.

14.5. Environmental Damages : Not relevant.

14.6. Special Precautions for the User : Not relevant.

14.7. Public transport according to Annex II of MARPOL 73/78 and the IBC code : Not relevant.

15. REGULATORY INFORMATION

15.1 Special safety, health and environmental legislation for the substance or mixture

Product; It is classified and labeled according to the procedures and principles stipulated in the "Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals" and "EU legislation".

- Refer to the following regulations for legislation or other national measures that may be relevant to the implementation of the provisions of this safety data sheet.
- Regulation on Restrictions on the Production, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles
- Occupational Health and Safety Regulation
- Regulation on Health and Safety Measures in Working with Carcinogenic and Mutagen Substances
- Regulation on Health and Safety Measures in Working with Chemical Substances
- Regulation on the Use of Personal Protective Equipment in the Workplace
- Regulation on the Control of Hazardous Wastes
- European Agreement on the International Carriage of Dangerous Goods by Road 2015 (ADR)
- Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals, Friday, June 23, 2017, Issue: 30105

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15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

16. OTHER INFORMATION

This section describes information on the preparation of the safety data sheet. The safety data sheet includes other information not included in headings 1 to 15, including information on revisions of the safety data sheet as follows

16.1 Legal Instruments

This document has been prepared in accordance with 1272/2008/EC, ISO 11014:2009, within the framework of the Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals, Friday, 23 June 2017, Number: 30105 and has been prepared and approved by an accredited expert certified as stipulated by the regulation.

16.2 Preparing/Editing/Publishing/Informing Safety Data Sheet

KRL CHEMICAL INDUSTRY AND TRADE LTD. ŞT İ.

Chemical Safety and Regulatory Consultant: Prepared by Özlem SALT KOTAN. ozlemsalt@krlkimya.com

Chemical Assessment Specialist Certificate Number: KDU-A-0-0300 Document Date: 07.05.2024

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16.3 Reissue Date: -

16.4 Number of Edits: 0

16.5 List of Related Hazard Classes and Expressions

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

16.6 Explanations on Hazard Classification Methods (In the case of mixtures, a statement on which of the methods of evaluating the information specified in Article 11 of the KKDİK are used for classification purposes.)

No application required.

16.7 Main Literature References and Information Sources

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- In order to ensure the protection of human health and the environment, it is recommended that workers receive appropriate training on the ability to read and use safety data sheets and label information in an understandable way in order to create a general safety culture and against the exposure of the product.
- The key sources of information used in the preparation of this safety data sheet are; Safety Data Sheet prepared by the manufacturer of the product,
"Regulation on Health and Safety Measures in Working with Carcinogenic and Mutagen Substances" and its annexes,
Other relevant local regulations,
UN ADR, IMDG, IATA lists, ECHA and related EU directives, other helpful resources.
- The information provided in this Safety Data Sheet has been prepared to the best of its ability at the time of preparation.
- This information is accurate and reliable information as of the specified date, within the high level of knowledge and opinion of the company.
- The information provided is intended to be a guide for safe handling, use, handling, storage, transportation, disposal and disposal.
- Unless specified in the document, this information applies only to the specified substance and may not apply if this substance is used in combination with other substances or in any other process.
- Observe the information in the Safety Data Sheet for use.
- This Safety Data Sheet describes the product according to the appropriate safety regulations but does not guarantee assurance of product properties.
- It does not constitute any warranty and the product specifications do not establish a legally valid contractual relationship.

1 SDS: Safety Data Sheet

2 CLP: EU Directive 1272/2008 <Classification, Labelling and Packaging of Substances and Mixtures>

3 GHS: Global Harmonised System

4 EINECS: European Inventory of Chemical Substances

5 CAS: Service Registration Number of Chemical Substances

6 KKDİK: Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals, Friday, June 23, 2017, Issue: 30105

7 NIOSH: The National Institute for Occupational Safety and Health

8 CEN: Comite Europeen de Normalisation / European Committee for Standardisation

9 NTP: (National Toxicology Program)

10 IARC: International Agency for Research on Cancer

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- 11 OSHA: (Occupational Safety and Health Association)
- 12 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- 13 EWC: (European Waste Catalog) European Union Waste Catalogue
- 14 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- 15 RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- 16 ADNR: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
- 17 IMDG: International Maritime Code for Dangerous Goods
- 18 ICAO: International Civil Aviation Organization
- 19 IATA: International Air Transport Association