

MATERIAL SAFETY DATA SHEET**1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER	PİGMENT SANAYİ A.Ş.
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IN CASE OF EMERGENCY	Tel:+902328770400 Fax:+902328770401
PRODUCT NAME	Chrome Oxide Green Pigment
TRADE NAMES/SYNONYMS	Chrome Oxide; Green Chrome Oxide; Chromium (III) Oxide, 99%, Amorphous Powder
PRODUCT CODE	
CHEMICAL CLASS	Inorganic chrome compound, inorganic salt.
CHEMICAL FORMULA	Cr ₂ O ₃

2- COMPOSITION AND INFORMATION ON INGREDIENTS

CAS	NAME	Formula	Content
1308-38-9	Chrome oxide green	Cr ₂ O ₃	100%

3- HAZARDS IDENTIFICATION

Appearance: green solid.

Danger! May cause allergic skin reaction. Oxidizer. Hygroscopic. Cancer suspect agent. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cancer based on animal studies.

Target Organs: Lungs.

Potential Health Effects

4- FIRST AID

LIMITS OF EXPOSURE	
LONG TIME EXPOSURE	ACUTE, CHRONIC
	FIRST AID
EYE CONTACT : Harmful.	In case of contact, immediately flush eyes with water for at least 15 min. Call a physician.
SKIN CONTACT : Harmful.	Flush skin with water and soap, Wash clothes before reuse.
INGESTION : Harmful.	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.
INHALATION : Harmful.	If not breathing perform artificial respiration, if breathing give fresh oxygen. Remove to fresh air and call a physician.
TOXIC TYPE :	
OTHER ADVISES :	

5- FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Oxidizer. Greatly increases the burning rate of combustible materials.
PROTECTIVE EQUIPMENT	In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

6- ACCIDENTAL RELEASE MEASURES

PERSON RELATED SAFETY PRECAUTIONS	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
MEASURES FOR ENVIRONMENTAL PROTECTION	Inform respective authorities in case of seepage into water course or sewage system. Do not allow material to be released to the environment without proper governmental permits.
MEASURES FOR CLEANING / COLLECTING	Dispose contaminated material as waste according to item 13.
OTHER PROCEDURES	See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7- HANDLING AND STORAGE

STORING and LOADING PRECAUTIONS	Keep away from eye and skin contact. Place in closed containers. Keep away from food. If contacted wash thoroughly.
HANDLING	Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care.
OTHERS	Do not inhale and protect from flammable media.

8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 0.5 m per second.

Personal Protection

EYES	Safety glasses or goggles. Eye-flushing stations.
SKIN	Rubber gloves and protective clothes, apron, impervious gloves.
INHALATION	Use required respirators in case of high concentrations.
LOCAL VENTILATION EXITS	Mechanical(General) local ventilation is enough.
OTHER PROTECTIVE EQUIPMENTS	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately.

9- PHYSICAL AND CHEMICAL PROPERTIES

FORM	Solid	SOLUBILITY IN WATER	Insoluble
MELTING POINT	844°C	COLOUR	Green
BOILING POINT		ODOR	Odorless
FREEZING POINT		MOLECULAR WEIGHT	151,99
BULK DENSITY ±15 %	900kg/m ³	EVAPORATION DENSITY	N/A
SPECIFIC GRAVITY	5,21±0,1	EVAPORATION RATE	N/A
OTHER DATA		pH	N/A

10- STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions
UNSTABILITY REASONS	Chlorine trifluoride, glycerol, lithium, rubidium acetylide, and oxygen difluoride.
POLIMERIZATION and ITS DANGERS	None.
UNSTABILITY CONDITIONS and DECOMPOSITION MATERIALS	None.

11- TOXICOLOGICAL INFORMATION

Acute toxicity and primary irritant effect.

ON THE SKIN	No data available.
ON THE EYE	No data available.
SENSITIZATION	No sensitizing effects known.
MUTAGENECITY	Hamster, lung cell: 34 mg/L caused sister chromatid exchange.

Carcinogenicity: Chromimium (III) Oxide

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Group 3 carcinogen

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

12- ECOLOGICAL INFORMATION

US FEDERAL

TSCA: CAS# 1308-38-9 is listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules:

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this material have a SNUR under TSCA.

SARA:

CERCLA Hazardous Substances and corresponding RQs:

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

SARACodes: CAS # 1308-38-9: acute, chronic.

Section 313:

This material contains Chromimium (III) Oxide, which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

CAS# 1308-38-9 is listed as a Priority Pollutant under the Clean Water Act.

CAS# 1308-38-9 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

OSHA considers none of the chemicals in this product highly hazardous.

European/International Regulations:

European Labeling in Accordance with EC Directives Hazard Symbols:

Hazard Symbols: XI

Risk Phrases: R 36/38 Irritating to eyes and skin.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection): CAS# 1308-38-9: 1

United Kingdom Occupational Exposure Limits:

CAS# 1308-38-9: OES-United Kingdom, TWA

Canada:

CAS# 1308-38-9 is listed on Canada's DSL List. This product has a WHMIS classification of D2A.

CAS# 1308-38-9 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 1308-38-9: OEL-ARAB Republic of Egypt.

: TWA 0.05 mg/m³

OEL-AUSTRALIA: TWA 0.05 mg/m³

OEL-BELGIUM: TWA 0.5 mg/m³

OEL-DENMARK: TWA 0.5 mg/m³

OEL-FINLAND: TWA 0.01 mg/m³

OEL-FRANCE: TWA 0.5 mg/m³

OEL-JAPAN: TWA 0.5 mg/m³

OEL-THE NETHERLANDS: TWA 0.5 mg/m³

OEL-THE PHILIPPINES: TWA 1 mg/m³

OEL-SWEDEN: TWA 0.5 mg/m³

OEL-UNITED KINGDOM: TWA 0.5 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

13- DISPOSAL INFORMATION

Consult state, local or national regulations for proper disposal. Disposal must be made according to official regulations.

14- TRANSPORT INFORMATION**Land transport ADR/RID (cross-border)**

ADR/RID CLASS : None dangerous goods
U.N. NUMBER :
ITEM :

Maritime transport IMDG:

IMDG CLASS : None dangerous goods.
PAGE NUMBER :
U.N. NUMBER :
PACKING GROUP :

15- REGULATIONS

No labelling is required.

16- OTHER INFORMATION

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.