

IONIAN KALK SA

MATERIAL SAFETY DATA SHEET

(According to Directives 91/155/EEC and 2001/58/EC,
1907/2006/EC-REACH, 453/2010/EC-REACH and EC/1272/2008-CLP)



1. INFORMATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING

COMMERCIAL NAME:	IOKAL®
TYPE:	IOKAL ULTRA FINE, EXTRA FINE, 5C, 10C, 15C, 600A No10, No20, No40, No63, RL, No100, No150, KALKOLIN, SPECIAL CHALK, DUCARB, STOKOS No100
CHEMICAL NAME:	CALCIUM CARBONATE
SYNONYMS:	CRYSTALLINE CALCIUM CARBONATE FROM WHITE MARBLE, CALCITE NATURAL GROUND CALCIUM CARBONATE
APPLICATIONS OF PRODUCT:	INDUSTRIAL MINERAL MAINLY USED AS A FILLER FOR PAINTS, COATINGS, ADHESIVES, VARNISHES, PAPER ETC. (FOR MORE INFORMATION SEE TECHNICAL DATA SHEET)
COMPANY/UNDERTAKING IDENTIFICATION:	IONIAN KALK S.A. P.O.BOX 71, ARGOSTOLI GREECE, KEFALONIA TEL.: +30 26710 41534 FAX: +30 26710 41773 E-Mail: IOKAL@OTENET.GR WEB: WWW.IOKAL.COM
EMERGENCY TELEPHONE NUMBER:	DURING OFFICE HOURS: +30 26710 41844 OUTSIDE OFFICE HOURS: +30 26710 41676

2. HAZARDS IDENTIFICATION

BASED ON THE AVAILABLE DATA ON NATURAL CALCIUM CARBONATE UNDER PARAGRAPH 3, THE SUBSTANCE REPRESENTS NEITHER A HAZARD TO MAN NOR A HAZARD TO THE ENVIRONMENT.	
CLASSIFICATION ACCORDING TO DIRECTIVE (EU) No1272/2008 (CLP):	THE SUBSTANCE IS NOT CLASSIFIED ACCORDING TO DIRECTIVE (EU) 1272/2008 (CLP). ALSO DOES NOT REQUIRE ANY LABELLING, SINCE IS NOT A HAZARD SUBSTANCE.
CLASSIFICATION ACCORDING TO DIRECTION 67/548/EC OR 1999/45/EC:	NOT APPLIED
REACH (PRE)-REGISTRATION NUMBER(1907/2006/EC-REACH):	IS EXEMPTED ACCORDING TO ARTICLE 3(39) AND APENDEXES IV AND V (COMMISSION REGULATION (EC) No987/2008), BECAUSE IS ABOUT A NATURAL SUBSTANCE WHICH IS PRODUCED UNDER NATURAL PROCESS, WITHOUT ANY CHEMICAL MODIFICATION TO TAKE PLACE.

3. COMPOSITION / CHEMICAL ANALYSIS / INFORMATION ON INGREDIENTS

COMPOSITION:	NATURAL GROUND CALCIUM CARBONATE (100% P.W.)
CAS-No OF CALCIUM CARBONATE (CaCO ₃):	471-34-1
EINECS No OF CALCIUM CARBONATE (CaCO ₃):	207-439-9
CHEMICAL ANALYSIS OF CALCIUM CARBONATE (CaCO ₃):	CaCO ₃ ≥ 99,0 %, SiO ₂ ≤ 0,05 %, MgO ≤ 0,15 %, Fe ₂ O ₃ ≤ 0,01 %
HAZARDOUS/DANGEROUS INGREDIENTS:	DOES NOT CONTAIN ANY HAZARDOUS/DANGEROUS INGREDIENTS

4. FIRST AID MEASURES

EYE CONTACT:	RINSE WITH PLENTY OF WATER. IN CASE OF IRRITATION, SEEK MEDICAL ADVICE.
SKIN CONTACT:	RINSE WITH WATER.
INHALATION:	MOVE PERSON TO A PLACE WITH FRESH AIR. IN CASE OF INDISPOSITION, SEEK MEDICAL ADVICE.

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INGESTION:

SYMPTOMATIC TREATMENT. IN CASE OF INDISPOSITION, SEEK MEDICAL ADVICE.

5. FIRE-FIGHTING MEASURES

NON-FLAMMABLE SUBSTANCE, THEREFORE NOT APPLICABLE. NO DANGEROUS SUBSTANCES ARE RELEASED.

6. ACCIDENTAL RELEASE MEASURES

HUMAN MEASURES:

IN CASE OF EXTENDED EXPOSURE OR TO HIGH AMOUNT OF DUST, WEAR INDIVIDUAL RESPIRATORY MASK, WHICH MUST BE COMPLIED WITH LOCAL REGULATIONS.

ENVIRONMENTAL MEASURES:

NO SPECIAL MEASURES ARE REQUIRED.

DIFUSION MEASURES:

AVOID DRY CLEANING AND APPLY CLEANING WITH WATER SPRAY OR AIR SUCTION TO AVOID CLOUD OF DUST. DUMP IN LICENSED LANDFILL SITE.

7. HANDLING AND STORAGE

HANDLING:

THE USUAL PRECAUTIONS FOR THE HANDLING WITH CHEMICALS SHOULD BE OBSERVED. AVOID CREATION OF DUST. PROVIDE SUITABLE VENTILATION SYSTEMS/DUST SUCION IN PLACES WHERE A LOT OF DUST IS GATHERED. IN CASE OF NOT ENOUGH AIR VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

STORAGE:

STORE IN TIGHTLY CLOSED CONTAINERS. AVOID CONTACT WITH ACIDS. SHELF LIFE IS THREE (3) YEARS FROM PACKAGING DATE

SPECIAL DIRECTIONS:

NO SPECIAL DIRECTIONS ARE REQUIRED TO BE APPLIED. APPLY THE ABOVE HANDLING DIRECTIONS WHEN MIXING WITH OTHER SUBSTANCES.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS:

AACGIH TLV:

10 MG/M³ TOTAL DUST (U.A.E.)

OEL (8 HOURS):

4 MG/M³ RESPIRABLE DUST (U.K.)

TOTAL FINE DUST:

6 MG/M³ (GERMANY)

TOTAL DUST:

10 MG/M³ (GREECE)

RESPIRABLE DUST:

5 MG/M³ (GREECE)

OEL (RESPIRABLE CRYSTALLINE SILICA):

0.05 MG/M³ (ITALY)

0.40 MG/M³ (IRELAND)

RESPIRATORY EXPOSURE:

WEAR SUITABLE RESPIRATORY MASK FOR PROTECTION FROM DUST IN CASE OF EXTENDED EXPOSURE IN DUST.

HAND PROTECTION:

RINSE YOUR HANDS GOOD BEFORE WORKING BREAK AND AFTER WORKING HOUR.

EYE PROTECTION:

WEAR PROTECTIVE GLASSES IF REQUIRED. RINSE WITH WATER IN CASE OF IRRITATION.

SKIN PROTECTION:

TAKE OFF AND RINSE CLOTHING THAT IS EXPOSED TO DUST.

ENVIRONMENTAL EXPOSURE CONTROLS:

PROVISION OF SUITABLE VENTILATION SYSTEM IN PLACES WITH GATHERED DUST.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION:

FORM:

METHOD

COLOUR:

POWDER

ODOUR:

WHITE

ODOURLESS

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IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

PH VALUE:	8.5-9.5 (100 G/L/20°C) DIN-ISO 787/9
MELTING POINT:	1340 °C (102 BAR)
BOILING POINT:	NOT APPLICABLE
FLASH POINT:	NOT APPLICABLE
FLAMMABILITY:	NON FLAMMABLE
AUTOFLAMMABILITY:	NO SELF-IGNITION
EXPLOSIVE PROPERTIES:	NOT EXPLOSIVE
VAPOUR PRESSURE:	NEGLIGIBLE
DENSITY (ROCK):	2.7 (20°C) DIN-ISO 787/10
WATER SOLUBILITY:	0.014 G/L (20 °C) DIN-ISO 787/8 0.018 G/L (75 °C) DIN-ISO 787/8
FAT SOLUBILITY:	NOT DETERMINED
PARTITION COEFFICIENT (N-OCTANOL/H ₂ O):	< 1 (ESTIMATION)
THERMAL DECOMPOSITION:	> 825 °C

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	NONE RECOMMENDED
MATERIALS TO AVOID:	AVOID CONTACT WITH ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS:	CAN REACT WITH ACIDS UNDER THE FORMATION OF CARBON DIOXIDE (CO ₂), WHICH CAN DISPLACE OXYGEN (O ₂) (DANGER OF SUFFOCATION).
FURTHER INFORMATION:	NONE

11. TOXICOLOGICAL INFORMATION

INFORMATION FOR TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:	BY INHALATION, RESPIRATION AND SKIN: IS NOT TOXIC
SKIN IRRITATION:	DOES NOT CAUSE IRRITATION
EYE IRRITATION:	DOES NOT CAUSE IRRITATION
SENSITIZATION:	THERE IS NO INFORMATION FOR CAUSE OF SENSITIZATION. WHEN USED AND IS HANDLED ACCORDING TO ITS SPECIFICATIONS, THIS SUBSTANCE DOES NOT HAVE ANY HARMFUL EFFECTS.
ADDITIONAL TOXICOLOGICAL EFFECTS:	THIS SUBSTANCE IS NOT SUBJECTED TO ANY CLASSIFICATION, ACCORDING TO THE LAST EDITION OF THE RELEVANT CATALOGS OF EUROPEAN UNION.

12. ECOLOGICAL INFORMATION

TOXICITY:	THE SUBSTANCE IS NOT DANGEROUS FOR THE ENVIRONMENT, SINCE TOXICOLOGICAL INFORMATION FOR THE INDUSTRIAL PRODUCED CALCIUM CARBONATE SHOWS THE FOLLOWING:
WATER TOXICITY:	FISH, SHELLFISH, ALGAE / AQUATIC PLANTS: NON TOXIC
CHRONIC WATER TOXICITY:	FISH, SHELLFISH: NOT APPLIED
WATER MICROORGANISMS:	NON TOXIC
EARTHWARM:	NO EFFECTS ARE OBSERVED, IN CONCENTRATION UP TO 1000 MG/KG
TERRESTRIAL PLANTS:	NO EFFECTS ARE OBSERVED, IN CONCENTRATION UP TO 1000 MG/KG
DURABILITY AND DEGRADABILITY:	ALL ORGANIC MOLECULES EXISTED IN THIS SUBSTANCE ARE DIRECTLY BIODEGRADABLE (>60% BOD/COD REDUCTION OR 70% DOC REDUCTION IN 28 DAYS) IN TESTS HELD FOR DIRECT BIODEGRADABILITY ACCORDING TO TEST METHOD OECD 301
BEHAVIOUR TO ENVIRONMENTAL SYSTEMS:	
BIOACCUMULATION ABILITY:	NOT APPLIED
GROUND MOBILITY:	NOT APPLIED

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ADDITIONAL ECOLOGICAL INFORMATION:
RESULTS FOR ABT AND α A α B ESTIMATION:

CRITERIA FOR ABT AND α A α B OF APPENDIX XIII OF THE RELEVANT
REGULATION DOES NOT APPLY ON INORGANIC SUBSTANCES. THIS
SUBSTANCE IS NOT ABT 'H AA α B.

13. DISPOSAL CONSIDERATION

WASTE MANAGEMENT METHODS:
RECOMMENDATIONS:

THE SUBSTANCE IS NOT CHARACTERIZED AS DANGEROUS WASTE.
DISPOSE IT ACCORDING TO THE LOCAL LEGISLATION FOR WASTE
DISPOSAL.

NOT CLEAN PACKAGING:
RECOMMENDATIONS:

SMALL QUANTITIES MAY BE DISPOSED AS HOME WASTES.
THE DISPOSAL MUST ALWAYS BE DONE UNDER THE APPLICABLE LOCAL
REGULATION.

14. TRANSPORT INFORMATION

REGISTRATION NUMBER ACCORDING: UN, ADR, ADN, IMDG, IATA:	NOT APPLIED
APPLICABLE TRANSPORT NAME: UN, ADR, AND, IMDG, IATA:	NOT APPLIED
DANGER TRANSPORTATION CATEGORT: ADR, ADN, IMDG, IATA:	NOT APPLIED
PACKAGING CLASSIFICATION: ADR, IMDG, IATA	NOT APPLIED
ENVIRONMENTAL DANGERS:	NONE
CONTAMINANT FOR THE MARINE ENVIRONMENT:	NONE
SPECIAL PRECAUTIONS FOR USER:	NONE
BULK TRANSPORT ACCORDING TO APPENDIX II OF CODE MARPOL 73/78 AND IBC, UN "MODEL REGULATION"	NOT APPLIED
	NOT APPLIED

15. REGULATORY INFORMATION

R-PHRASES:	NONE
S-PHRASES:	NONE
CALCIUM CARBONATE IS NOT SUBJECTED UNDER ANY SPECIFIC REGULATION IN EUROPEAN UNION RELATED TO PROTECTION OF HUMAN HEALTH AND NATURAL ENVIRONMENT.	

16. OTHER INFORMATION

REGULATION STATUS PER COUNTRY:

SWITZERLAND:	REGISTERED AS NON TOXIC ACCORDING TO No.617300
COUNTRIES WITHIN E.U.:	EINECS No:207-439-9 – EXEMPTED FROM REACH
UNITED STATES OF AMERICA:	TSCA REGISTERED WITH CAS No. 471-34-1
CANADA:	CALCIUM CABRONATE IS EXEMPTED FROM PDSL (NATURAL SUBSTANCE)
AUSTRALIA:	ACQIN EDITION 92 REGISTERED WITH CAS No. 1317-65-3
JAPAN:	MITI REGISTERED WITH No. 1-122-122
CHINA:	-1317-65-3
SOUTH KOREA:	-1317-65-3

THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET RELATED ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN
COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS. THE INFORMATION PROVIDED HEREIN IS BASED ON TECHNICAL DATA THAT IONIAN KALK S.A. BELIEVES TO BE
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PURPOSE PRIOR TO SUCH USE.