



GREEN AGROCHEM CO.,LIMITED

MATERIAL SAFETY DATA SHEET

SECTION 1-CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME OF PRODUCT: SODIUM LIGNOHUMATE
SYNONYM: SODIUM LIGNOHUMATE
CHEMICAL FORMULA: NOT AVAILABLE

DATE: 20230629

CONTACT INFORMATION

MANUFACTURER:

GREEN AGROCHEM

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SECTION 2-COMPOSITION INFORMATION ON INGREDIENTS

COMMON NAME SODIUM LIGNOHUMATE CAS

SECTION 3-HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS: NO SPECIFIC INFORMATION AVAILABLE IN OUR DATABASE REGARDING THE ACUTE EFFECT OF THIS MATERIAL FOR HUMANS.

ROUTE OF ENTRY: EYES, INHALATION, SKIN AND INGESTION

SECTION 4-FIRST AID MEASURES

DESCRIPTION OF FIRST AID

EYE CONTACT: RINSE THE EYES IMMEDIATELY DURING SEVERAL MINUTES IN RUNNING WATER, WIDENING THE

EYELIDS. CONSULT A PHYSICIAN IF THE SYMPTOMS PERSIST.

INHALATION: NOT APPLICABLE.

INGESTION: RINSE THE MOUTH ABUNDANTLY AND DRINK WATER IN PROPORTION TO THE QUANTITY INGESTED. DO

NOT MAKE THE SUBJECT VOMIT. CONSULT A PHYSICIAN.

SKIN CONTACT: WASH IN LARGE QUANTITIES OF WATER. CONSULT A PHYSICIAN IN CASE OF EXTENDED CONTACT

PRINCIPAL SYMPTOMS AND EFFECTS, ACUTE AND LATENT: NOT APPLICABLE

INDICATION OF IMMEDIATE MEDICAL CARE AND PARTICULAR TREATMENTS REQUIRED: NONE

SECTION 5-FIRE-FIGHTING MEASURES

MEANS OF EXTINCTION

AQUEOUS SOLUTION: NON-COMBUSTIBLE AS SUCH.



ALL EXTINGUISHING AGENTS ARE AUTHORIZED
PARTICULAR DANGERS RESULTING FROM THE SUBSTANCE OR MIXTURE: SEE
SECTION 10

RECOMMENDATIONS FOR FIRE FIREFIGHTERS: NONE

SECTION 6- ACCIDENTAL RELEASE MEASURES

INDIVIDUAL PRECAUTIONS, PERSONAL PROTECTION EQUIPMENT, AND
EMERGENCY PROCEDURES:

USE OF PERSONAL PROTECTION EQUIPMENT (EYEGASSES, GLOVES, PROTECTIVE
CLOTHING) OBLIGATORY

PRECAUTIONS FOR ENVIRONMENTAL PROTECTION: THE MATERIAL BEING
BIODEGRADABLE AND

FERMENTABLE, A LARGE QUANTITY EVACUATED IN THE DRAINS MAY CAUSE A
SATURATION OF THE SYSTEM OR A

DURABLE REDUCTION OF DISSOLVED OXYGEN IN THE RECEIVING LIQUID VEIN.
AVOID UNCONTROLLED DUMPING OF

LARGE QUANTITIES IN WATERCOURSES, WASTEWATERS, SURFACE WATERS.
PROTECT ZONE INVOLVED FROM RAINWATER

AND SURFACE RUNOFF.

CONFINEMENT AND CLEANING METHODS AND EQUIPMENT: SUCK OR RETAIN THE
SPILLED PRODUCT IF

POSSIBLE BY MAINTAINING A TANK; IMMOBILIZE WITH ANY BULKY ABSORBENT
SUCH AS SAWDUST, SAND, PEAT.

COLLECT MECHANICALLY THE MAJOR PART OF THE SPILLED PRODUCT AND
ELIMINATE IT OR RECYCLE IT DEPENDING ON

USAGE AND THE FORM OF COLLECTION AUTHORIZED. WASH AND RINSE THE AREA
ABUNDANTLY WITH WATER WHILE

AVOIDING DISCHARGE INTO THE SEWERS.

SECTION 7- PRECAUTIONS FOR SAFE HANDLING AND USE

PRECAUTIONS TO BE TAKEN FOR HANDLING THE PRODUCT WITHOUT DANGER:

USE OF PERSONAL PROTECTION EQUIPMENT (EYEGASSES, GLOVES, PROTECTIVE
CLOTHING) RECOMMENDED. APPLY USUAL PRECAUTIONS DURING OPERATIONS
OF PUMPING AND TRANSFER FOR PREVENTING LEAKS AND HEATING. FOLLOW THE
USUAL RULES OF RINSING AND DRAINING OF PIPES, SLEEVES AND CONTAINERS.
STAY WITHIN THE LOADING LIMITS OF MACHINERY FOR HANDLING HEAVY LOADS.
DO NOT USE AT TEMPERATURES HIGHER THAN 200°C. CONDITIONS OF SAFE
STORAGE, INCLUDING INCOMPATIBILITIES IF ANY: STORE SHIELDED FROM THE
LIGHT IN A FRESH (COOL) AND DRY PLACE.

SECTION 8-EXPOSURE CONTROLS /PERSONAL PROTECTION



CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMIT VALUES

NO DATA AVAILABLE

BIOLOGICAL LIMIT VALUES

NO DATA AVAILABLE

APPROPRIATE ENGINEERING CONTROLS

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION

SAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO EN166. USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

SKIN PROTECTION

WEAR IMPERVIOUS CLOTHING. THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE. HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE(WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS. THE SELECTED PROTECTIVE GLOVES HAVE TO SATISFY THE SPECIFICATIONS OF EU DIRECTIVE 89/686/EEC AND THE STANDARD EN 374 DERIVED FROM IT.

RESPIRATORY PROTECTION

WEAR DUST MASK WHEN HANDLING LARGE QUANTITIES.

THERMAL HAZARDS

NO DATA AVAILABLE

SECTION 9-PHYSICAL/CHEMICAL CHARACTERISTICS

INFORMATION ON ESSENTIAL PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: POWDER

COLOR:DARK BROWN TO BLACK

ODOR: LIGHT ODOR PH: 6.5 TO 10.0 AT 25°C



CHARACTERISTIC TEMPERATURES: THERMAL DECOMPOSITION AT 220°C

SOLUBILITY IN WATER: COMPLETELY AT 20°C

VAPOR PRESSURE: NONE

UNIT REMARKS DENSITY 520 KG/M³

SECTION 10-REACTIVITY DATA

REACTIVITY: NONE

CHEMICAL STABILITY: STABLE UNDER NORMAL AMBIENT CONDITIONS

POSSIBILITY OF DANGEROUS REACTIONS: NONE

CONDITIONS TO BE AVOIDED: NONE

INCOMPATIBLE MATERIALS: NONE

DANGEROUS DECOMPOSITION PRODUCTS: CO, CO₂, SO₂, NO_x, NH₃ IN CASE OF CONFINED

COMBUSTION AND CRITICAL HEATING

SECTION 11-TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS: NO KNOWN TOXICITY.

ACUTE INHALATION EFFECTS: NOT DETERMINED

CHRONIC EFFECTS: NO UNUSUAL CHRONIC EFFECTS

CARCINOGENICITY: NOT LISTED AS CARCINOGENIC

SECTION 12-ECOLOGICAL INFORMATION

TOXICITY

AQUATIC TOXICITY FOR FISH: LC₅₀ > 100 MG/L

TOXICITY FOR BACTERIA: TTC TEST > 5 ML/L

COD: 710 KG/T

BOD: 140 KG/T

PERSISTENCE AND DEGRADABILITY: PRODUCT IS BIODEGRADABLE AND FERMENTABLE: AFFECTS THE LEVEL OF

DISSOLVED OXYGEN IN RECEIVING WATER STREAMS IN CASE OF ACCIDENTAL DISPERSION. CAN BE ELIMINATED BY

INCINERATION UNDER CONTROLLED CONDITIONS.

POTENTIAL FOR BIOACCUMULATION: NO DATA AVAILABLE.

MOBILITY IN THE GROUND: NO DATA AVAILABLE

RESULTS OF PBT AND VPVB EVALUATIONS: NO DATA AVAILABLE.

OTHER HARMFUL EFFECTS: NONE

SECTION 13-DISPOSAL CONSIDERATIONS

DISPOSAL: DISPOSE OF IN AN APPROVED LANDFILL OR APPLY AT RECOMMENDED LABEL RATES.

DISPOSAL REGULATORY REQUIREMENT: FOLLOW APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS

SECTION 14-TRANSPORT INFORMATION

NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE OR MIXTURE ACCORDING TO



OSHA HAZARD COMMUNICATION
STANDARD 1910.1200.

SECTION 15-REGULATORY INFORMATION

REGULATION/LEGISLATION SPECIFIC TO THE SUBSTANCE OR MIXTURE
REGARDING SAFETY, HEALTH
AND ENVIRONMENT

PRODUCT FOR INDUSTRIAL USE: LABELLING ACCORDING TO REGULATION CLP NO.
1272/2008

EVALUATION OF CHEMICAL SAFETY: NO EVALUATION OF CHEMICAL SAFETY
NECESSARY

SECTION 16-OTHER

DISCLAIMER:ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA
OBTAINED FROM MANUFACTURERS AND/OR RECOGNIZED TECHNICAL
SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, WE MAKE NO
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