INDIVIDUAL INTENIAL OUT FEI OUNT UNATION

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SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY INDENTIFICATION

· PRODUCT NAME

: ITEM# 93-019-8000G Wasabi Platinum/Gold Polish

EMERGENCY CONTACT: CHEMTREC, Account# CCN 620995

24-Hour Telephone: USA & Canada: 1-800-424-9300 Outside USA & Canada: 1-703-527-3887

COLLECT CALLS ACCEPTED

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE

: MIXTURE (SOLID MOLDING TYPE)

CHEMICAL NAME

: ALUMINUM OXIDE, FATTY ACID

COMPOSITION/INFORMATION ON INGREDIENTS:

ALUMINUM OXIDE

APPROX. 79%

FATTY ACID

APPROX. 21%

OTHERS (INCLUDING ANIMAL AND VEGETABLE OIL)

CHEMICAL FORMULA (CONSTITUTIONAL FORMULA, STRUCTUAL FORMULA) : Al2O3, CH3 (CH2) nCOOH

CSCL No

: 1-23, 2-608, 2-609

CAS No

: 1344-28-1, 57-10-3, 57-11-4, 544-63-8

HAZARDOS INGREDIENTS THE LABOR INDUSTRIAL SAFETY AND HEALTH LAW.

ARTICLE 57 DESIGNATED CHEMICAL SUBSTANCE

190 ALUMINUM OXIDE

APPROX. 79%

3. SUMMARY OF HAZARDS IDENTIFICATION

ADVERSE HUMAN HEALTH EFFECTS : IN CASE OF NORMAL HANDLING, TOXICITY AND IRRITANT PROPERTIES ARE

CONSIDERER TO BE LOW. BUT IT IS POSSIBLE TO OCCUR COMPARATIVE SLIGHT

IRRITANT TO EYES, RESPIRATION ORGAN SKIN AND MUCOUS MEMBRANE.

ENVIRONMENTAL EFFECTS

: THE FATTY ACID CONTAINED IN THIS PRODUCT IS JUDGED TO BE GOOD AT

RESOLUTION.

PHYSICAL AND CHEMICAL HAZARDS: IF THE FATTY ACID CONTACTS (BECOME HIGH TEMPERATURE) TO THE SOURCE OF

IGNITION, IT WILL FLASH AND BURN. (THE LAW OF FIRE FIGHTING. DESIGNATED

FLAMMABILITY) OR CONTACT TO ALCARI, IT WILL GENERATE FEVER.

CLASS NAME : (JAPANESE STYLE)

NOT APPLICABLE

4. FIRST-AID MEASURE

INHALATION

: IN CASE OF A LOT OF DUST INHALATION DURING POLISHING OPERATION, LET THEM

MOVE TO THE PLACE OF FRESH AIR AND BLOW ONE'S NOSE, GORGLE AND LET DUST OUT. DEPENDING UPON THE CONDITION OF DISEASES, CONSULT WITH DOCTOR.

SKIN CONTACT

: WIPE WITH A PIECE OF CLOTH AND WASH WITH SOAP AND WATER. IF YOU FEEL SKIN

TROUBLE, PUT PROTECTIVE CREAM.

EYE CONTACT

: IMMEDIATELY WASH EYES WITH CLEAN WATER UNTIL REDUCTION OF IRRITATION BUT,

DO NOT RUB EYES AS GRAIN IN ABRASIVES IS CONTAINED. CONSULT WITH DOCTOR

IF YOU FEEL PAIN AND IRRITATION.

INGESTION

RINSE MOUTH WITH WATER. IF THE VICTIM SWALLOWS A LOT, MAKES HIM VOMIT AND CONSULT WITH DOCTOR IMMEDIATELY. IF THE VICTIM IS IN THE CONDITION OF CRAMP OR UNCONSCIOUSNESS, NEITHER GIVE ANYTHING TO DRINK NOR MAKE TO VOMIT.

FIRE FIGHTING MEDIA : POWDER, CARBON DIOXIDE, BUBBLE, HALOGEN SUBSTANCE, FORTIFICATION LIQUID, DRYED SAND, ETC.

FIRE FIGHTING PROCEDURES: SHUT OFF FUEL TO FIRE AND IN THE BEGINNING OF FIRE, DRY CHEMICAL POWDER, CARBON DIOXIDE OR DRY SAND ARE USED. IN CASE OF LARGE-SCALE FIRE, FOAM EXTINGUISHING MEDIA IS EFECTIVE TO SHUT OFF AIR. REMOVE CONTAINERS TO A SAFE PLACE, IF FEASIBLE.

EVACUATE NON ESSENCIAL PERSONNEL.

PROTECTION FOR FIRE FIGHTERS: THIS PRODUCT GENERATES CARBON OXIDES, HYDROGEN CARBON UPON COMBUSTION.

SO, FIRE FIGHTING SHOULD BE DONE FROM UP-WIND WITH PROPER PROTECTIVE

EQUIPMENT.

6. ACCIDENTAL RELEASE MEASURES

FOR HUMAN BODY : WEAR PROPER PROTECTIVE EQUIPMENT.

FOR ENVIROMENTAL EFFECTS: DO NOT WASH AWAY INTO SHOWER OR WATERWAY.

: ABSORB FLAKES AND FLASH WITH DETERGENT OR PLENTY AMOUNT OF WATER.

FOR PREVENTION OF FURTHER DISASTER: THOUGH THE FLASH POINT OF FATTY ACID CONTAINED IN THIS PRODUCT IS

HIGH. IT IS DESIRABLE TO REMOVE SUBSTANCE IMMEDIATELY WHICH WILL BE THE SOURCE OF IGNITION AROUND AND PREPARE FOR EXTINGUISHING

MATERIALS.

7. HANDLING AND STORAGE

HANDLING

: ENGINEERING MEASURES (PREVENTION OF EXPOSURE AND FIRE EXPLOSION).

- IN CASE OF POLISHING OPERATION BY BUFFS WITH POLISHING COMPOUNDS, DUST GENERATES BY THE MATERIALS OF BUFFS AND GRAIN OF THE POLISHING COMPOUNDS ETC. IF YOU INHALATE DUST OF THESE POWDER AND FABRICS OF BUFFS FOR A LONG TIME. IT SPOILS LUNG ORGAN SLOWLY AND CAUSED HEART AND LUNGS DISEASES. THEREFORE, IT IS NECESSARY TO WEAR A PROTECTIVE MASK FOR PREVENTION OF INHALATION.
- · WHEN USING OUTSIDE, OPERATE UPWIND AS MUCH AS POSSIBLE YOU CAN.

REMARKS

(LOCAL EXHAUST VENTILATION, GOOD GENERAL VENTILATION AND THE PREVENTION OF AEROSOL AND DUST GENERATION)

- ACCORDING TO THE CHAPTER 576&577 OF "LABOUR SAFETY AND HEALTH LAW" A WORKSHIP GENERATING FINE DUST SHOULD BE DESIGNATED AS A HAZARDOUS WORKSHIP AND AS A RULE, THE EMPLOYERS ARE OBLIGED TO TAKE THE NECESSARY PROCEDURES. FOR THE PREVENTION OF FINE DUST OBSTACLES SUCH AS NOT TO BE HARMFUL OF LOCAL EXHAUST VENTILATION AND GENERAL VENTILATION (NO. 22 ARTICLE OF LOABOUR SAFETY AND HEALTH LAW).
- NOT TO SCATTER LEA AND FLOOD, AND NOT LET THEM GENERATE VOPOUR.
- · IF THIS PRODUCT ADHERES TO THE CONTROL PART OF FOLKLIFT, IT FEARS THAT THE CONTROL DOES NOT WORK. SO PRACTICE TO CLEAN INSIDE OF THE WORKING PLACE.

SAFETY HANDLING (PREVENTION OF MIXTURE CONTACT, AVOIDANCE OF CONTACT)

- · KEEP AWAY FROM THE SOURCE OF IGNITON.
- AVOID FROM CONTACT BETWEEN HIGH TEMPERATURED MATERIALS AND STRONG OXIDIZING AGENTS.

STORAGE:

ADEQUATE STORAGE CONDITION

- AVOID FROM DIRECT SUNSHINE AND KEEP COATED ABRASIVE IN MODERATE CONSTANT TEMPERATURE.
- · AVOID FROM CONTACT WITH ALKALIC SUBSTANCE.

8. EXPOSORE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES

- · SET UP DUST COLLECTION DEVICE ON BUFF POLISHING DEVICE, TO SHUT OUT THE SOURCE OF GENERATION OF POLISHING DUST AND LOCAL EXHAUST VENTILATION.
- TO SET UP A WASH ROOM NEAR HANDLING PLACE AND INDICATE THE PLACE CLEARLY.

PROTECTION

RESPIRATORY PROTECTION: DUST RESPIRATOR HAND PROTECTION : RUBBER GLOVE EYE PROTECTION : SAFETY GOGGLES

HAND, SKIN, AND BODY PROTECTION: RUBBER BOOTS AND APRON AS APPROPRIATE.

ADEQUATE HYGIENE MEASURES

THE CHANGE OF MASK CAN BE DONE PERIODICALLY IN USE.

-2/4

PHYSICAL STATE FORM

FORM COLOUR

ODOUR

: SOLID : GREEN

: FATTY ACID PH

: NOT APPLICABLE. PHYSICAL STATE (SPECITIED TEMPERATURE/TEMPERATURE SCOPE)

BOILING POINT

: 69∼ 70°C

: 232°C (15mmHg) (*REPRESENTATIVE VALUE FOR STEARIN ACID) (*REPRESENTATIVE VALUE FOR STEARIN ACID)

MELTING POINT FLASH POINT

: 196.1°C

(*REPRESENTATIVE VALUE FOR STEARIN ACID)

DENSITY

: 0.8386(80°C) (*REPRESENTATIVE VALUE FOR STEARIN ACID)

SOLUBILITY

SOLUBILITY FOR SOLVENT

WATER

: DIFFICULT TO DISSOLVE

ASETON, ALCOHOL, ETHER, CHLORO FORM, BENZENE AND HEXANE : VERY SOLUBLE

(*SOLUBILITY OF FATTY ACID CONTAINED IN THIS PRODUCT).

10. STABILITY AND REACTIVITY

STABILITY : STABLE IN NORMAL CONDITION

REACTIVITY : THE FATTY ACID CONTAIND IN THIS PRODUCT HAS LESS PHYSICAL HAZARD AND HARMFUL. HOWEVER, IT REACTS WITH ALKALI SUBSTANCE SUCH AS POTASH SODA AND POTASH POTASSIUM AND GENERATE

SALT EASILY.

AVOIDABLE CONDITIONS:

THE HANDLING UNDER THE NORMAL CONDITION IS STABLE. BUT ITS SHOWS CORROSION ONCE IT CONTACTS WITH METAL SUCH AS IRON AND COPPER FOR A LONG TIME AFTER SOLUTION OF THE PRODUCT. PHYSICAL HAZARD AND DECOMPOSTION PRODUCTS : NOT APPLICABLE.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : NOT APPLICABLE

PARCIAL EFFECTS (SKIN AND EYES)

: IT IS POSSIBLE TO CAUSE IRRITATION TO RESPIRATION ORGAN, SKIN AND MUCOUS MEMBRANE.

12. ECOLOGICAL INFORMATION

BIOACCUMULATION AND BIODEGRADABILITY: THE FATTY ACID CONTAINED IN THIS PRODUCT IS JUDGED TO BE GOOD IN BIODEGRADABILITY.

13. DEISPOSAL CONSIDERATION

IN ADDTION TO THE ARTICLE "HANDLING AND STORAGE", IT SHOULD BE DISPOSED BY THE APPLICABLE RULES.

14. TRANSPORT INFORMATION

INTERNATIONAL AGREEMENT : NOT APPLICALBE

CLASSIFICATION OF THE UNITED NATIONS: THE FATTY ACID CONTAINED INT THIS PRODUCT IS NOT APPLICABLE TO THE STANDARD OF THE UNITED NATIONS.

REGULATORY INFORMATION

ALUMINUM OXIDE

LABOUR SAFETY AND HEALTH LAW, WASTE DISPOSAL PREVENTION LAW. HEART AND LUNGS DISEASES LAW, HEART AND LUNGS EXCUTION & RULE.

FIRE FIGHTING LAW: NON-DENGEROUS SUBSTANCE, DESIGNATED COMBUSTIBLLITY, COMBUSTIBLE SOLID TYPE (DESIGNATED AMOUNT 3,000 kgs).

16. OTHER INFORMATION

REFERENCES

- 1) GUIDELINES TO PREPARE MSDS
- 2) CHEMICAL PRODUCTS OF 12996
- 3) MSDS OF EACH MATERIAL USED

SUPPLEMENT

THE INFORMATION MENTIONED HERE IS BASED UPON DATA BELIEVED TO BE CORRECT, BUT NO GUARANTEE CAN BE MADE WITH IT. SINCE YOUR CONDITION OF USE IS BEYOND OUR MANAGEMENT AND RESPONSIBILITY, PLEASE MAKE SURE TO BE CAREFUL IN HANDLING IT.

REGULATIONS IN "MSDS" ARE JAPANESE ONES. IF YOU USE IT IN OTHER COUNTRIES, FOLLOW FEDERAL OR LOCAL REQULATIONS IN THE COUNTRY.