MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: L3877

This MSDS should be attached or kept with the respective product with which it is associated.

| ************************************** | ###################################### |
|---|--|
| | MELTING POINT: NA |
| HANNA INSTRUMENTS | EXPLOSION LIMITS: NA |
| HI 3810-0 TITRANT SOLUTION | BOILING POINT: >100 DEG. C |
| HEALTH & SAFETY DATA SHEET | IGNITION TEMPERATURE: NA |
| ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS | ph value at 20 deg. C: 8.2 |
| DATE OF ISSUE: 04 NOVEMBER 2004. | |
| | CONDITIONS TO BE AVOIDED: HEATING. |
| PRODUCT NAME: HI 3810-0 TITRANT SOLUTION. | HAZARDOUS DECOMPOSITION PRODUCTS: |
| APPLICATION: TITRATION REAGENT. | IN THE EVENT OF FIRE: SEE SECTION 5. |
| MANUFACTURER IDENTIFICATION: | SUBSTANCES TO BE AVOIDED: STRONG OXIDIZING AGENTS. |
| HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A | HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. |
| 35012 VILLAFRANCA PADÓVANA ITALY | |
| TEL. NO.: +39-049-9070211 | QUANTITATIVE DATA ON THE TOXICITY OF THIS PRODUCT ARE NOT AVAILABLE. |
| EMERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT. | FURTHER TOXICOLOGICAL INFORMATION: HAZARDOUS PROPERTIES CANNOT BE EXCLUDED BUT ARE UNLIKELY WHEN THE PRODUCT IS HANDLED APPROPRIATELY. |
| | FURTHER DATA: |
| AQUEOUS SOLUTION. | THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS. |
| | |
| NO HAZARDOUS PRODUCT AS SPECIFIED IN DIRECTIVE 67/548/EEC. | |
| | ECOTOXIC EFFECTS: QUANTITATIVE DATA ON THE ECOLOGICAL EFFECT OF THIS PRODUCT ARE NOT |
| | AVAILABLE. |
| AFTER INHALATION: IF INHALED REMOVE TO FRESH AIR. | NO ECOLOGICAL PROBLEMS ARE TO BE EXPECTED WHEN THE PRODUCT IS HANDLED AND USED WITH DUE CARE AND ATTENTION. |
| AFTER SKIN CONTACT: WASH OFF WITH WATER AND SOAP. | |
| AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. | SECTION 13 - DISPOSAL CONSIDERATIONS |
| AFTER SWALLOWING (LARGE AMOUNTS): SUMMON DOCTOR IF FEELING UNWELL. | WASTE DISPOSAL: CAN BE SAFELY DISPOSED OF AS AN ORDINARY REFUSE. |
| | |
| SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY POWDER OR CARBON DIOXIDE. | LAND TRANSPORT: ADR/RID: 9/UN 3316/PGII NAME: CHEMICAL KIT |
| SPECIAL RISKS: NON COMBUSTIBLE. DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS POSSIBLE IN THE EVENT OF FIRE. | SEA TRANSPORT: IMDG: 9/UN 3316/PGII |
| THE FOLLOWING MAY DEVELOP IN EVENT OF FIRE: SULFUR DIOXIDE. | NAME: CHEMICAL KIT MARINE POLLUTANT: NO |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: | AIR TRANSPORT: |
| DO NOT STAY IN DANGERÕUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. | ICAO/IATA: 9/UN 3316/PGII NAME: CHEMICAL KIT |
| ADDITIONAL INFORMATION: CONTAIN ESCAPING VAPORS WITH WATER. | THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK! |
| | |
| PERSONAL PRECAUTIONS: DO NOT INHALE VAPORS/AEROSOLS. | LABELING ACCORDING TO EC DIRECTIVES: |
| PROCEDURES FOR CLEANING / ABSORPTION: TAKE UP WITH LIQUID-ABSORBENT MATERIAL. FORWARD FOR DISPOSAL. CLEAN UP AFFECTED AREA. | SYMBOL: R-PHRASES: S-PHRASES: |
| | CONTAINS: |
| | |
| HANDLING: CANNOT BE STORED INDEFINITELY. | SUPERSEDES EDITION OF: JUNE 2002. |
| STORAGE: TIGHTLY CLOSED. IN A WELL-VENTILATED PLACE. AT +15 DEG. C TO +25 DEG. C. | REASON FOR REVISION: CHANGE IN LABELING DUE TO REEVALUATION OF CONSTITUENTS. |
| | LEGEND: NA: NOT APPLICABLE |
| PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. | NA: NOT APPLICABLE |
| PROTECTIVE GLOVES: RUBBER OR PLASTIC. | THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE |
| RESPIRATORY PROTECTION: REQUIRED WHEN VAPORS/AEROSOLS ARE GENERATED. EYE PROTECTION: GOGGLES OR FACE MASK. | SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. |
| | PKC0005 |
| | HANNA INSTRUMENTS |
| APPEARANCE: COLORLESS LIQUID | HI 3811-0 SOLUTION |
| DENSITY AT 20 DEG. C: 1.0 G/CM3 | HEALTH & SAFETY DATA SHEET |
| ODOR: ODORLESS | ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS |
| FLASH POINT: NA | DATE OF ISSUE: 04 NOVEMBER 2004. |
| SOLUBILITY IN WATER: SOLUBLE | SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY |

| PRODUCT NAME: HI 3811-0 SOLUTION. | CONDITIONS TO BE AVOIDED: HEATING. |
|--|---|
| APPLICATION: TITRATION REAGENT. | HAZARDOUS DECOMPOSITION PRODUCTS: |
| MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. | IN THE EVENT OF FIRE: SEE SECTION 5. |
| VIALE DELLE INDUSTRIE, 12/A 35012 VILLAFRANCA PADOVANA | SUBSTANCES TO BE AVOIDED: METALS. |
| ITALY | HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. |
| TEL. NO.: +39-049-9070211 | |
| EMERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT. | PROPERTY THAT MUST BE ANTICIPATED ON THE BASIS FROM THE COMPONENTS OF THE PREPARATION: |
| | AFTER SKIN CONTACT: SLIGHT IRRITATIONS. |
| AQUEOUS SOLUTION. | AFTER EYE CONTACT: SLIGHT IRRITATIONS. |
| | FURTHER DATA: |
| NO HAZARDOUS PRODUCT AS SPECIFIED IN DIRECTIVE 67/548/EEC. | THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS. |
| | |
| SECTION 4 - FIRST AID MEASURES | |
| AFTER INHALATION: IF INHALED REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN. | ECOTOXIC EFFECTS: QUANTITATIVE DATA ON THE ECOLOGICAL EFFECT OF THIS PRODUCT ARE NOT AVAILABLE. |
| AFTER SKIN CONTACT: WASH OFF WITH WATER AND SOAP. | NO ECOLOGICAL PROBLEMS ARE TO BE EXPECTED WHEN THE PRODUCT IS HANDLED AND USED WITH DUE CARE AND ATTENTION. |
| AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF PAIN PERSISTS, | |
| SUMMON MEDICAL ADVICE. | |
| AFTER SWALLOWING: IMMEDIATELY MAKE VICTIM DRINK PLENTY OF WATER. SUMMON DOCTOR IF PAIN | WASTE DISPOSAL: CAN BE SAFELY DISPOSED OF AS AN ORDINARY REFUSE. |
| PERSISTS. | SECTION 14 - TRANSPORT INFORMATION |
| | LAND TRANSPORT: |
| GUITABLE EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY POWDER OR CARBON DIOXIDE. | ADR/RID: 9/UN 3316/PGIII NAME: CHEMICAL KIT SEA TRANSPORT: |
| SPECIAL RISKS: NON COMBUSTIBLE. DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS POSSIBLE IN THE EVENT OF FIRE. | IMDG: 9/UN 3316/PGIII NAME: CHEMICAL KIT MARINE POLLUTANT: NO |
| THE FOLLOWING MAY DEVELOP IN THE EVENT OF FIRE: HYDROCHLORIC ACID. | AIR TRANSPORT: |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: | ICAO/IATA: 9/UN 3316/PGIII NAME: CHEMICAL KIT |
| DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. | THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK! |
| ADDITIONAL INFORMATION: CONTAIN ESCAPING VAPORS WITH WATER. | |
| | ABBELING ACCORDING TO EC DIRECTIVES: |
| PERSONAL PRECAUTIONS: DO NOT INHALE VAPORS/AEROSOLS. | |
| PROCEDURES FOR CLEANING / ABSORPTION: | R-PHRASES: S-PHRASES: |
| TAKE UP WITH LIQUID-ABSORBENT MATERIAL. FORWARD FOR DISPOSAL. CLEAN UP | CONTAINS: |
| ADDITIONAL NOTES: | |
| RENDER HARMLESS: | SECTION 16 - OTHER INFORMATION |
| WEUTRALIZE WITH DILUTED SODIUM HYDROXIDE SOLUTION OR BY THROWING ON LIME, LIME SAND, OR SODIUM CARBONATE. | SUPERSEDES EDITION OF: JUNE 2002. |
| | REASON FOR REVISION: CHANGE IN LABELING DUE TO REEVALUATION OF CONSTITUENTS. |
| HANDLING: CANNOT BE STORED INDEFINITELY. | LEGEND: NA: NOT APPLICABLE |
| STORAGE: | ND: NOT DETERMINED |
| FIGHTLY CLOSED. IN A WELL-VENTILATED PLACE. AT +15 DEG. C TO +25 DEG. C. | THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE |
| | SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. |
| PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. | PKC0020 |
| PROTECTIVE GLOVES: RUBBER OR PLASTIC. | HANNA INSTRUMENTS |
| RESPIRATORY PROTECTION: REQUIRED WHEN VAPORS/AEROSOLS ARE GENERATED. | HI 3812 HARDNESS REAGENT 2 |
| EYE PROTECTION: GOGGLES OR FACE MASK. | HEALTH & SAFETY DATA SHEETS |
| | |
| SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES | DECODICT NAME. HADDNESS DEACENT 2 |
| APPEARANCE: COLORLESS LIQUID DENSITY AT 20 DEG. C: 1.0 G/CM3 | PRODUCT NAME: HARDNESS REAGENT 2 CODE NO.: HI 3812-0 |
| DDOR: ODORLESS | APPLICATION: DETERMINATION OF HARDNESS IN WATER SAMPLES |
| FLASH POINT: NA | MANUFACTURER IDENTIFICATION : |
| SOLUBILITY IN WATER: SOLUBLE | HANNA INSTRUMENTS V.LE DELLE INDUSTRIE 12 |
| EXPLOSIVE PROPERTIES: NA | RONCHI DI VILLAFRANCA PADOVA |
| | ITALY |
| MELTING POINT: NA | |
| | SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS |
| EXPLOSION LIMITS: NA | CHEMICAL CHARACTERIZATION: SOLUTION IN WATER |
| MELTING POINT: NA EXPLOSION LIMITS: NA BOILING POINT: >100 DEG. C IGNITION TEMPERATURE: NA | CHEMICAL CHARACTERIZATION: SOLUTION IN WATER |
| EXPLOSION LIMITS: NA BOILING POINT: >100 DEG. C | |

| EYE CONTACT: | |
|--|--|
| WASH THOROUGHLY WITH PLENTY OF WATER. IF DISCOMFORT PERSISTS, OBTAIN MEDICAL ATTENTION | LABELING ACCORDING TO EEC DIRECTIVES: |
| INGESTION: VASH OUT MOUTH WITH PLENTY OF WATER | SYMBOL: |
| IN SEVERE CASES OBTAIN MEDICAL ATTENTION | R-PHRASES: |
| INHALATION: REMOVE FROM EXPOSURE, REST AND KEEP WARM. IN SEVERE CASES OBTAIN MEDICAL ATTENTION | S-PHRASES: S24/25: AVOID CONTACT WITH SKIN AND EYES |
| SKIN CONTACT: | |
| NASH WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE RE-USE. | EMERGENCY TELEPHONE NUMBER: 0039-049-9070211 |
| SECTION 5 - FIRE FIGHTING MEASURES | LAST REV.: JUNE 2002 |
| FIRE EXTINGUISHER: N/A | THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE |
| SPECIAL FIRE FIGHTING PRECAUTIONS: NONE | ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. |
| | HSDS3812-2 |
| | HI 3812-0 EDTA SOLUTION |
| IN CASE OF ACCIDENTAL SPILL OR RELEASE: WEAR APPROPRIATE PROTECTIVE CLOTHING | HEALTH & SAFETY DATA SHEET |
| SWEEP UP AND WASH WITH PLENTY OF WATER | ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS |
| IF PERMITTED BY LOCAL REGULATIONS, RUN TO WASTE DILUTING GREATLY WITH RUNNING WATER; OTHERWISE TRANSFER TO CONTAINER AND ARRANGE REMOVAL BY DISPOSAL COMPANY | DATE OF ISSUE: 29 APRIL 2004 |
| SECTION 7 - HANDIING AND STORAGE | PRODUCT NAME: HI 3812-0 EDTA SOLUTION |
| HANDLING: | APPLICATION: DETERMINATION OF HARDNESS IN WATER SAMPLES. |
| HANDLING: DO NOT EAT OR DRINK WHILE HANDLING THIS MATERIAL MASH HANDS AND FACE AFTER WORKING WITH MATERIAL | MANUFACTURER IDENTIFICATION: |
| STORAGE: | HANNA HISTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A |
| FORE AT ROOM TEMPERATURE (@ 15-25 DEG. C) KEEP CONTAINER WELL CLOSED | ISOIO VILLAFRANCA PADOVANA ITALY |
| ROTECT FROM DIRECT SUNLIGHT AND MOISTURE | TEL.: +39-049-9070211 |
| | EMERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT |
| AS APPROPRIATE TO QUANTITY HANDLED: | |
| RESPIRATORY PROTECTION: SELF-CONTAINED BREATHING APPARATUS | |
| PROTECTIVE GLOVES: PLASTIC OR RUBBER | AQUEOUS SOLUTION. |
| EYE PROTECTION: GOGGLES OR FACE-SHIELD | |
| SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES | NO HAZARDOUS PRODUCT AS SPECIFIED IN DIRECTIVE 67/548/EEC. |
| APPEARANCE AND ODOR: | |
| CHARACTERISTIC ODOR | AFTER INHALATION: FRESH AIR. |
| VATER REACTIVITY: NON-REACTIVE | AFTER SKIN CONTACT: WASH OFF WITH PLENTY OF WATER. |
| SOLUBILITY IN WATER: MISCIBLE IN ALL PROPORTIONS TO GIVE A NEUTRAL SOLUTION | AFTER EYE CONTACT: RINSE OUT WITH WATER. |
| MELTING POINT: NOT DETERMINED | AFTER SWALLOWING: |
| BOILING POINT: NOT DETERMINED | WASH OUT MOUTH THOROUGHLY WITH WATER AND GIVE PLENTY OF WATER TO DRINK. IN SEVERE CASES OBTAIN MEDICAL ATTENTION. |
| | |
| STABILITY: STABLE | SUITABLE EXTINGUISHING MEDIA: |
| SUBSTANCES AND CONDITIONS TO BE AVOIDED: NONE | WATER SPRAY, FOAM, DRY POWDER OR CARBON DIOXIDE. |
| | SPECIAL RISKS: NA |
| SECTION 11 - TOXICOLOGICAL INFORMATION | SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING |
| IRRITATION EFFECTS IN CASE OF INHALATION, EYE OR SKIN CONTACT AND INGESTION. MINIMAL HAZARD IF USED AS INSTRUCTED. MAY BE HARMFUL IF INGESTED | AND SELF-CONTAINED BREATHING APPARATUS. |
| IN VERY LARGE AMOUNTS | ADDITIONAL INFORMATION: NON-COMBUSTIBLE. |
| SECTION 12 - ECOLOGICAL INFORMATION | |
| NO ENVIRONMENTAL HAZARD IS ANTICIPATED PROVIDED THAT MATERIAL IS HANDLED AND DISPOSED OF WITH DUE CARE AND ATTENTION | PERSONAL PRECAUTIONS: DO NOT INHALE VAPORS. AVOID SUBSTANCE CONTACT. |
| AND DISCORD OF WITH DOE OWNER AND WITHNITON | ENVIRONMENTAL PRECAUTIONS: NONE. |
| SECTION 13 - DISPOSAL CONSIDERATIONS | |
| NASTE DISPOSAL: IN COMPLIANCE WITH CURRENT REGULATIONS | HANDLING: NO FURTHER REQUIREMENTS. |
| CHEMICALS ARE GENERALLY CLASSIFIED AS SPECIAL WASTE AND THUS COVERED BY | STORAGE: |
| LOCAL REGULATIONS. CONTACT AUTHORITIES OR DISPOSAL COMPANIES FOR ADVICE. | TIGHTLY CLOSED. STORE AT ROOM TEMPERATURE (+15 TO +25 DEG. C RECOMMENDED). PROTECT FROM LIGHT AND MOISTURE. |
| VASH EMPTY CONTAINERS BEFORE RECYCLING | |
| SECTION 14 - TRANSPORT INFORMATION | |
| JN-NO.: | PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. |
| IMDG CLASS: | PROTECTIVE GLOVES: RUBBER OR PLASTIC |
| IMO: PACKAGING GROUP: | RESPIRATORY PROTECTION: REQUIRED WHEN VAPORS/AEROSOLS ARE GENERATED. |
| IATA: | WORK UNDER HOOD. |
| PACKAGING GROUP: | EYE PROTECTION: GOGGLES OR FACE MASK |
| CORRECT TECHNICAL NAME: NOT RESTRICTED | |

APPEARANCE: LIQUID pH VALUE AT 20 DEG. C: APPROX. 4.5 ODOR: ODORLESS BOILING POINT: NA SOLUBILITY IN WATER: SOLUBLE IGNITION TEMPERATURE: NA MELTING POINT: NA FLASH POINT: NA EXPLOSION LIMITS: NA DENSITY AT 20 DEG. C: 1 G/CM3

----- SECTION 10 - STABILITY AND REACTIVITY -

CONDITIONS TO BE AVOIDED: STRONG HEATING.

HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5.

SUBSTANCES TO BE AVOIDED: THE GENERALLY KNOWN REACTION PARTNERS OF WATER. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

----- SECTION 11 - TOXICOLOGICAL INFORMATION -

QUANTITATIVE DATA ON THE TOXICITY OF THIS PRODUCT ARE NOT AVAILABLE. IN CASE OF INHALATION: SLIGHT IRRITATIONS.

IN CASE OF SKIN CONTACT: SLIGHT IRRITATIONS.

IN CASE OF EYE CONTACT: SLIGHT IRRITATIONS.

IN CASE OF INGESTION OF LARGE QUANTITIES: DISTURBED ELECTROLYTE BALANCE, SEVERE IRRITATIONS IN ESOPHAGUS AND STOMACH, BLOODY VOMITING.

AFTER ABSORPTION IN LARGE AMOUNTS: DROP IN BLOOD PRESSURE, PARALYSIS SYMPTOMS, AGITATION.

FURTHER DATA: FURTHER HAZARDOUS PROPERTIES CANNOT BE EXCLUDED. THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS.

- SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXIC EFFECT: QUANTITATIVE DATA ON THE ECOLOGICAL EFFECT OF THIS PRODUCT ARE NOT AVAILABLE.

FURTHER ECOLOGICAL DATA: NO ECOLOGICAL PROBLEMS ARE TO BE EXPECTED WHEN THE PRODUCT IS HANDLED AND USED WITH DUE CARE AND ATTENTION.

----- SECTION 13 - DISPOSAL CONSIDERATIONS ----

WASTE DISPOSAL: CAN BE SAFELY DISPOSED OFF AS AN ORDINARY REFUSE.

------SECTION 14 - TRANSPORT INFORMATION ----

NOT SUBJECT TO TRANSPORT REGULATIONS.

---- SECTION 15 - REGULATORY INFORMATION

LABELING ACCORDING TO EC DIRECTIVES:

SYMBOL:

R-PHRASES:

S-PHRASES: 24/25: AVOID CONTACT WITH SKIN AND EYES. CONTAINS:

- SECTION 16 - OTHER INFORMATION

SUPERSEDES EDITION OF: JUNE 2002

REASON FOR REVISION: GENERAL UPDATE

LEGEND: NA: NOT APPLICABLE ND: NOT DETERMINED

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.

PKC 0048

HANNA INSTRUMENTS

HI 3818-0 SOLUTION

HEALTH & SAFETY DATA SHEET

ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS DATE OF ISSUE: 14 JUNE 2004.

----- SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY -

PRODUCT NAME: HI 3818-0 SOLUTION.

APPLICATION: DETERMINATION OF CARBON DIOXIDE IN WATER SAMPLES.

MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY

TEL. NO.: +39-049-9070211

EMERGENCY TELEPHONE NO .: NO HAZARDOUS PRODUCT

AQUEOUS SOLUTION.

--------- SECTION 3 - HAZARD IDENTIFICATION ----

NO HAZARDOUS PRODUCT AS SPECIFIED IN DIRECTIVE 67/548/EEC.

---- SECTION 4 - FIRST AID MEASURES --

AFTER INHALATION: IF INHALED REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN.

AFTER SKIN CONTACT: WASH OFF WITH WATER AND SOAP.

AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF PAIN PERSISTS, SUMMON MEDICAL ADVICE.

AFTER SWALLOWING: WASH OUT MOUTH WITH PLENTY OF WATER, PROVIDED PERSON IS CONSCIOUS. OBTAIN MEDICAL ATTENTION IF FEELING UNWELL.

----- SECTION 5 - FIRE-FIGHTING MEASURES ·

SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY POWDER OR CARBON DIOXIDE.

SPECIAL RISKS: NON COMBUSTIBLE. DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS POSSIBLE IN THE EVENT OF FIRE.

THE FOLLOWING MAY DEVELOP IN EVENT OF FIRE: SODIUM OXIDES.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

ADDITIONAL INFORMATION: CONTAIN ESCAPING VAPORS WITH WATER.

------ SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: NONE ENVIRONMENTAL PRECAUTIONS: NONE

------SECTION 7 - HANDLING AND STORAGE -

HANDLING: NO RESTRICTIONS

STORAGE: KEEP CONTAINER CLOSED AND PROTECTED FROM DIRECT SUNLIGHT. STORE AT ROOM TEMPERATURE (+15 DEG. C TO +25 DEG. C).

----- SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION -

PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. RESPIRATORY PROTECTION: REQUIRED WHEN VAPORS/AEROSOLS ARE GENERATED. PROTECTIVE GLOVES: RUBBER OR PLASTIC. EYE PROTECTION: GOGGLES OR FACE MASK.

------ SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

APPEARANCE: COLORLESS BOILING POINT: 100 DEG. C ODOR: ODORLESS pH VALUE AT 20 DEG. C: >12 SOLUBILITY IN WATER: SOLUBLE DENSITY AT 20 DEG. C: 1 G/CM3 MELTING POINT: NA FLASH POINT: NA

------ SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO BE AVOIDED: STRONG HEATING (ABOVE BOILING POINT). STABLE IN THE RECOMMENDED STORAGE CONDITIONS.

SUBSTANCES TO BE AVOIDED: THE GENERALLY KNOWN REACTION PARTNERS OF WATER.

HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

| SECTION 11 - TOXICOLOGICAL INFORMATION | AFTER INHALATION: |
|---|--|
| ACUTE TOXICITY: QUANTITATIVE DATA ON THE TOXICITY OF THIS PRODUCT ARE NOT AVAILABLE. | IF INHALED REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT, CALL A PHYSICIAN. |
| 'URTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL JATA: | AFTER SKIN CONTACT: WASH OFF WITH WATER AND SOAP. AFTER EYE CONTACT: |
| FTER SKIN CONTACT: SLIGHT IRRITATIONS. | RINSE OUT WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF PAIN PERSISTS, SUMMON MEDICAL ADVICE. |
| FTER EYE CONTACT: SLIGHT IRRITATIONS. | AFTER SWALLOWING: WASH OUT MOUTH WITH PLENTY OF WATER, PROVIDED PERSON IS CONSCIOUS. OBTAIN |
| URTHER DATA: HAZARDOUS PROPERTIES CANNOT BE EXCLUDED, BUT ARE RELATIVELY IMPROBABLE DUE TO THE LOW CONCENTRATION OF THE DISSOLVED SUBSTANCE. THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS. | MEDICAL ATTENTION IF FEELING UNWELL. |
| | SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY POWDER OR CARBON DIOXIDE. |
| COTOXIC EFFECTS: WANTITATIVE DATA ON THE ECOLOGICAL EFFECT OF THIS PRODUCT ARE NOT WAILABLE. | SPECIAL RISKS: NON COMBUSTIBLE. DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS POSSIBLE IN THE EVENT OF FIRE. |
| FURTHER ECOLOGICAL DATA: NO ECOLOGICAL PROBLEWS ARE TO BE EXPECTED WHEN THE PRODUCT IS HANDLED AND JSED WITH DUE CARE AND ATTENTION. | THE FOLLOWING MAY DEVELOP IN EVENT OF FIRE: SODIUM OXIDES. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: |
| | DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHIN AND SELF-CONTAINED BREATHING APPARATUS. |
| SECTION 13 - DISPOSAL CONSIDERATIONS | ADDITIONAL INFORMATION: CONTAIN ESCAPING VAPORS WITH WATER. |
| ASIE DISPOSAL. CAN DE SAFELI DISPOSED OFF AS AN ONDINANI NEFOSE. | |
| SECTION 14 - TRANSPORT INFORMATION | PERSONAL PRECAUTIONS: NONE |
| AND TRANSPORT: ADR/RID: 9/UN 3316/PGII | ENVIRONMENTAL PRECAUTIONS: NONE |
| IAME: CHEMICAL KIT | |
| EA TRANSPORT: MDG: 9/UN 3316/PGII IAME: CHEMICAL KIT | |
| MARINE POLLUTANT: NO | HANDLING: NO RESTRICTIONS |
| IIR TRANSPORT: ICAO/IATA: 9/UN 3316/PGII IAME: CHEMICAL KIT | KEEP CONTAINER CLOSED AND PROTECTED FROM DIRECT SUNLIGHT. STORE AT ROOM TEMPERATURE (+15 DEG. C TO +25 DEG. C). |
| HESE TRANSPORT DATA APPLY TO THE ENTIRE PACK! | |
| | PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. |
| ABELING ACCORDING TO EC DIRECTIVES: | RESPIRATORY PROTECTION: REQUIRED WHEN VAPORS/AEROSOLS ARE GENERATED. |
| YYMBOL: PHRASES: PHRASES: | PROTECTIVE GLOVES: RUBBER OR PLASTIC. EYE PROTECTION: GOGGLES OR FACE MASK. |
| CONTAINS: | |
| | APPEARANCE: COLORLESS |
| SECTION 16 - OTHER INFORMATION | BOILING POINT: 100 DEG. C |
| SUPERSEDES EDITION OF: JUNE 2002 | ODOR: ODORLESS |
| REASON FOR REVISION: CHANGE IN LABELING AFTER REEVALUATION OF CONSTITUENTS. | pH VALUE AT 20 DEG. C: >12 |
| LEGEND: VA: NOT APPLICABLE VD: NOT DETERMINED | SOLUBILITY IN WATER: SOLUBLE |
| THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR | DENSITY AT 20 DEG. C: 1 G/CM3 |
| KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES | MELTING POINT: NA |
|)F THE PRODUCT. | FLASH POINT: NA |
| PKC0025 | |
| HANNA INSTRUMENTS HI 3820-0 SOLUTION | CONDITIONS TO BE AVOIDED: STRONG HEATING (ABOVE BOILING POINT). |
| HEALTH & SAFETY DATA SHEET | STRONG HEATING (ABOVE BOTHING FOINT). |
| ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS | SUBSTANCES TO BE AVOIDED: THE GENERALLY KNOWN REACTION PARTNERS OF WATER. |
| DATE OF ISSUE: 14 JUNE 2004. | HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. |
| | HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. |
| | |
| | ACUTE TOXICITY: |
| APPLICATION: DETERMINATION OF ACTUITY IN WATER SAMPLES | QUANTITATIVE DATA ON THE TOXICITY OF THIS PRODUCT ARE NOT AVAILABLE. |
| | |
| ANUFACTURER IDENTIFICATION: ANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A SO10 VILLAFRANCA PADOVANA | FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL DATA: |
| MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY | FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL |
| MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 | FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL DATA: |
| MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A Stollo VILLAFRANCA PADOVANA TTALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT | FURTHER TOXICOLOGICAL INFORMATION: FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL DATA: AFTER SKIN CONTACT: SLIGHT IRRITATIONS. |
| ANUFACTURER IDENTIFICATION: IANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A S5010 VILLAFRANCA PADOVANA TALY TEL. NO.: +39-049-9070211 MERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT | FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL DATA: AFTER SKIN CONTACT: SLIGHT IRRITATIONS. AFTER EYE CONTACT: SLIGHT IRRITATIONS. FURTHER DATA: HAZARDOUS PROPERTIES CANNOT BE EXCLUDED, BUT ARE RELATIVELY IMPROBABLE DUE TO THE LOW CONCENTRATION OF THE DISSOLVED SUBSTANCE. THE PRODUCT SHOULD BE HANDLED WITH THE CARE USUAL WHEN DEALING WITH CHEMICALS. |
| APPLICATION: DETERMINATION OF ACIDITY IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY ITEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: NO HAZARDOUS PRODUCT SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS AQUEOUS SOLUTION. SECTION 3 - HAZARD IDENTIFICATION | FURTHER TOXICOLOGICAL INFORMATION: FURTHER TOXICOLOGICAL INFORMATION: PROPERTY WHICH CANNOT BE EXCLUDED ON THE BASIS OF THE CHEMICAL/PHYSICAL DATA: AFTER SKIN CONTACT: SLIGHT IRRITATIONS. AFTER EYE CONTACT: SLIGHT IRRITATIONS. FURTHER DATA: HAZARDOUS PROPERTIES CANNOT BE EXCLUDED, BUT ARE RELATIVELY IMPROBABLE DUE HAZARDOUS PROPERTIES CANNOT BE EXCLUDED, BUT ARE RELATIVELY IMPROBABLE DUE TO THE LOW CONCENTRATION OF THE DISSOLVED SUBSTANCE. THE PRODUCT SHOULD BE |

| | SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: |
|--|---|
| FURTHER ECOLOGICAL DATA: NO ECOLOGICAL PROBLEMS ARE TO BE EXPECTED WHEN THE PRODUCT IS HANDLED AND | DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. |
| USED WITH DUE CARE AND ATTENTION. | ADDITIONAL INFORMATION: PREVENT FIRE-FIGHTING WATER FROM ENTERING SURFACE WATER OR GROUNDWATER. |
| | |
| WASTE DISPOSAL: CAN BE SAFELY DISPOSED OFF AS AN ORDINARY REFUSE. | SECTION 6 - ACCIDENTAL RELEASE MEASURES |
| | PERSONAL PRECAUTIONS: AVOID GENERATION OF DUSTS. DO NOT INHALE DUSTS. |
| LAND TRANSPORT: ADR/RID: 9/UN 3316/PGII | DO NOT DISCHARGE INTO THE DRAINS/SURFACE WATERS/GROUNDWATER'S. |
| NAME: CHEMICAL KIT SEA TRANSPORT: | ADDITIONAL NOTES: TAKE UP DRY. CLEAN UP AFFECTED AREA AND DISPOSE ACCORDING TO LOCAL REGULATION. |
| IMDG: 9/UN 3316/PGII NAME: CHEMICAL KIT | |
| MARINE POLLUTANT: NO | |
| AIR TRANSPORT: ICAO/IATA: 9/UN 3316/PGII NAME: CHEMICAL KIT | HANDLING: NO FURTHER REQUIREMENTS. ACCESSIBLE ONLY FOR AUTHORIZED PERSONS. |
| THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK! | STORAGE: STORAGE: STORE AT ROOM TEMPERATURE (+15 TO +25 DEG. C RECOMMENDED). |
| | TIGHTLY CLOSED. PROTECT FROM LIGHT AND MOISTURE. |
| LABELING ACCORDING TO EC DIRECTIVES: | |
| SYMBOL: R-PHRASES: | PERSONAL PROTECTIVE EQUIPMENT: AS APPROPRIATE TO QUANTITY HANDLED. |
| S-PHRASES: | PROTECTIVE GLOVES: RUBBER OR PLASTIC. |
| CONTAINS: | RESPIRATORY PROTECTION: REQUIRED WHEN DUSTS ARE GENERATED. |
| | - EVE PROTECTION: GOGGLES OR FACE MASK. |
| SUPERSEDES EDITION OF: JUNE 2002 | |
| REASON FOR REVISION: CHANGE IN LABELING AFTER REEVALUATION OF CONSTITUENTS. | |
| LEGEND: | APPEARANCE AND ODOR: WHITE POWDER, ODORLESS |
| NA: NOT APPLICABLE ND: NOT DETERMINED | SOLUBILITY IN WATER: SOLUBLE |
| THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR | MELTING POINT: ND |
| THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF | BOILING POINT: NA |
| SAFELY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. | IGNITION TEMPERATURE: NA |
| PKC 0014 | FLASH POINT: NA |
| HANNA INSTRUMENTS | EXPLOSION LIMITS: NA |
| HI 3833-0 PHOSPHATE REAGENT | DENSITY AT 20 DEG. C: ND |
| HEALTH & SAFETY DATA SHEET | ph at 20 deg. C: approx. 1.5 at 20 g/l in water |
| | |
| ACCORDING TO EC DIRECTIVE 91/155/EC | |
| ACCORDING TO EC DIRECTIVE 91/155/EC DATE OF ISSUE: 22 SEPTEMBER 2003. | CONDITIONS TO BE AVOIDED: ND |
| | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: |
| DATE OF ISSUE: 22 SEPTEMBER 2003. | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. ———————————————————————————————————— | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY SECTION 2 - COMPOSITION/INFORMATION ON INSREDIENTS | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY SECTION 2 - COMPOSITION/INFORMATION ON INCREDIENTSM IXTURE OF CRYSTALLINE POWDERSSECTION 3 - HAZARD IDENTIFICATION | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALYSECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTSMIXTURE OF CRYSTALLINE POWDERSSECTION 3 - HAZARD IDENTIFICATION | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |
| DATE OF ISSUE: 22 SEPTEMBER 2003. SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3833-0 PHOSPHATE REAGENT APPLICATION: DETERMINATION OF PHOSPHATE IN WATER SAMPLES. MANUFACTURER IDENTIFICATION: HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A 35010 VILLAFRANCA PADOVANA ITALY TEL. NO.: +39-049-9070211 EMERGENCY TELEPHONE NO.: +39-02-66101029 CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY SECTION 2 - COMPOSITION/INFORMATION ON INCREDIENTSM IXTURE OF CRYSTALLINE POWDERSSECTION 3 - HAZARD IDENTIFICATION | CONDITIONS TO BE AVOIDED: ND HAZARDOUS DECOMPOSITION PRODUCTS: IN THE EVENT OF FIRE: SEE SECTION 5. SUBSTANCES TO BE AVOIDED: ND FURTHER INFORMATION: STABLE IN THE RECOMMENDED STORAGE CONDITIONS. |

| LABELING ACCORDING TO EC DIRECTIVES: | |
|---|---|
| SYMBOL: | ADDITIONAL INFORMATION: CONTAIN ESCAPING VAPORS WITH WATER. PREVENT FIRE-FIGHTING WATER FROM ENTERING SURFACE WATER OR GROUNDWATER. |
| R-PHRASES: | PREVENT FIRE-FIGHTING WALLER FROM ENTERING SURFACE WALLER OR GROUNDWALLER. |
| S-PHRASES: 22-24/25: DO NOT BREATHE DUST. AVOID CONTACT WITH SKIN AND EYES. | SECTION 6 - ACCIDENTAL RELEASE MEASURES |
| CONTAINS: | PERSONAL PRECAUTIONS: AVOID SUBSTANCE CONTACT. AVOID INHALATION OF DUSTS IN ALL CIRCUMSTANCES. |
| | ENVIRONMENTAL-PROTECTION MEASURES: DO NOT ALLOW TO ENTER SEWERAGE SYSTEM. |
| SUPERSEDES EDITION OF: JUNE 2002 | PROCEDURES FOR CLEANING / ABSORPTION: TAKE UP DRY. FORWARD FOR DISPOSAL. CLEAN UP AFFECTED AREA. AVOID GENERATION |
| REASON FOR REVISION: GENERAL UPDATE | OF DUSTS. |
| LEGEND: | |
| NA: NOT APPLICABLE ND: NOT DETERMINED | HANDLING: AVOID GENERATION OF DUSTS. |
| THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT. | DO NOT UNHALE SUBSTANCE. ACCESSIBLE ONLY FOR AUTHORIZED PERSONS. |
| ETICRS01 | STORE AT ROOM TEMPERATURE (+15 TO +25 DEG. C). TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. |
| HANNA INSTRUMENTS | PROTECT FROM MOISTURE. |
| HI 3874-0 NITRATE REAGENT | |
| HEALTH & SAFETY DATA SHEET | SPECIFIC CONTROL PARAMETER: EC |
| ACCORDING TO EC DIRECTIVE 91/155/EC AND FOLLOWING AMENDMENTS | NAME: SULFANILIC ACID |
| DATE OF ISSUE: 12 JULY 2004. | SENSITIZATION: DANGER OF SENSITIZATION OF THE SKIN |
| DAIL OF 1550E. 12 00E1 2004. | PERSONAL PROTECTIVE EQUIPMENT: |
| SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY PRODUCT NAME: HI 3874-0 NITRATE REAGENT | PROTECTIVE CLOTHING SHOULD BE SELECTED SPECIFICALLY FOR THE WORKING PLACE, DEPENDING ON CONCENTRATION AND QUANTITY OF THE HAZARDOUS SUBSTANCES HANDLED. |
| APPLICATION: DETERMINATION OF NITRATE IN WATER SAMPLES. | RESPIRATORY PROTECTION: REQUIRED WHEN DUSTS ARE GENERATED. WORK UNDER HOOD. |
| MANUFACTURER IDENTIFICATION: | PROTECTIVE GLOVES: RUBBER OR PLASTIC |
| HANNA INSTRUMENTS ITALIA S.R.L. VIALE DELLE INDUSTRIE, 12/A | EYE PROTECTION: GOGGLES OR FACE MASK |
| 35010 VILLAFRANCÀ PADÓVANA ITALY | INDUSTRIAL HYGIENE: |
| TEL.: +39-049-9070211 | CHANGE CONTAMINATED CLOTHING. APPLICATION OF SKIN- PROTECTIVE BARRIER CREAM RECOMMENDED. WASH HANDS AFTER WORKING WITH SUBSTANCE. AVOID GENERATION OF |
| EMERGENCY TELEPHONE NO.: | DUSTS. UNDER NO CIRCUMSTANCES EAT OR DRINK AT WORKPLACE. |
| +39-02-66101029 CENTRO ANTIVELENI | |
| OSPEDALE NIGUARDA (MI) - ITALY | APPEARANCE AND ODOR: GREY POWDER, ODORLESS. |
| | DENSITY AT 20 DEG. C: ND |
| HAZARDOUS INGREDIENTS: | SOLUBILITY IN WATER: PARTIALLY SOLUBLE |
| NAME EC-INDEX-NO. CAS NO. LABELING CONTENT | IGNITION TEMPERATURE: NA |
| (EC DIRECTIVES) (EC DIRECTIVES) | MELTING POINT: ND |
| SULFANILIC ACID 612-014-00-X 121-57-3 Xi >/=1% - <10% R 36/38-43 | FLASH POINT: NA |
| CADMIUM POWDER NA 7440-43-9 T >/=1% - <10% | BOILING POINT: NA |
| R 45-26/27/28 | EXPLOSION LIMITS: NA |
| COPPER SULPHATE 029-004-00-0 7758-99-8 Xn >/=0.1% - <1% R22-36/38-50/53 | pH AT 20 DEG. C: 3.1 AT 6 G/L |
| (FULL TEXT OF R PHRASES IN SECTION 16) | |
| | CONDITIONS TO BE AVOIDED: STRONG HEATING. |
| MAY CAUSE SENSITIZATION BY SKIN CONTACT. MAY CAUSE CANCER. ALSO TOXIC BY | HAZARDOUS DECOMPOSITION PRODUCTS: |
| INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. | TOXIC GASES OR VAPORS IN THE EVENT OF FIRE. |
| RESTRICTED TO PROFESSIONAL USERS. ATTENTION - AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTION BEFORE USE. | SUBSTANCES TO BE AVOIDED: OXIDIZING AGENTS, ACIDS. |
| | |
| REMOVE CONTAMINATED, SOAKED CLOTHING IMMEDIATELY AND DISPOSE OF SAFELY. | QUANTITATIVE DATA ON THE TOXICITY OF THIS PRODUCT ARE NOT AVAILABLE. |
| AFTER INHALATION: | APPLICABLE TO MAIN COMPONENT(S): |
| REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF PAIN PERSISTS, SUMMON MEDICAL ADVICE. | TOXICOLOGICAL DATA: |
| AFTER SKIN CONTACT: WASH OFF WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. | SULFANILIC ACID: ACUTE TOXICITY: LD50 (ORAL, RAT): 12300 MG/KG. |
| AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER. IF PAIN PERSISTS, SUMMON MEDICAL ADVICE. | CADMIUM POWDER: ACUTE TOXICITY: |
| AFTER SWALLOWING: WASH OUT MOUTH THOROUGHLY WITH WATER, IF PERSON IS CONSCIOUS. IMMEDIATELY | LD50 (ORAL, RAT): 2330 MG/KG. |
| WASH OUI MOUTH THOROUGHLY WITH WATER, IF PERSON IS CONSCIOUS. IMMEDIATELY OBTAIN MEDICAL ATTENTION. | PROPERTY OF THIS PRODUCT MUST BE ANTICIPATED ON THE BASIS FROM THE COMPONENTS OF THE PREPARATION: |
| | IN CASE OF INHALATION: IRRITATION SYMPTOMS IN THE RESPIRATORY TRACT. |
| SUITABLE EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL POWDER. | IN CASE OF SKIN CONTACT: SLIGHT IRRITATIONS. MAY CAUSE SENSITIZATION. |
| SPECIAL RISKS: DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS POSSIBLE IN THE EVENT | IN CASE OF EYE CONTACT: SLIGHT IRRITATIONS. IN CASE OF INGESTION: NAUSEA, VOMITING, DIARRHEA. |
| OF FIRE. | SYSTEMIC EFFECTS: |
| THE FOLLOWING MAY DEVELOP IN EVENT OF FIRE: SULFUR OXIDES, NITROGEN OXIDES. | AFTER ABSORPTION OF LARGE QUANTITIES: TIREDNESS, AGITATION, SPASMS, ATAXIA, DROP IN TEMPERATURE. |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: DO NOT STAY IN DANGEROUS ZONE WITHOUT SUITABLE CHEMICAL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. | FURTHER DATA: FURTHER HAZARDOUS PROPERTIES CANNOT BE EXCLUDED. THE PRODUCT SHOULD BE |

- SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXIC EFFECT: QUANTITATIVE DATA ON THE ECOLOGICAL EFFECT OF THIS PRODUCT ARE NOT AVAILABLE.

BIOLOGICAL EFFECTS:

APPLICABLE TO PARTIAL COMPONENT(S):

THE FOLLOWING APPLIES TO CADMIUM COMPOUNDS IN GENERAL:

DEGRADABILITY: BIODEGRADABILITY 0

BIOLOGICAL EFFECTS:

FISH: I. MACROCHIRUS 96 H. LDLO: 1.94 MG/L C. AURATUS 8.5 H. TOXIC AS FROM 0.0165 MG/L BACTERIA: E. COLI TOXIC AS FROM 0.15 MG/L

ARTHROPODS: DAPHNIA TOXIC AS FROM 0.1 MG/L DAPHNIA MAGNA TOXIC AS FROM 0.0026 MG/L

PROTOZOA: TOXIC AS FROM 0.2 MG/L

ALGAE: SC. QUADRICAUDA TOXIC AS FROM 0.1 MG/L

HAZARD FOR DRINKING WATER.

FURTHER ECOLOGICAL DATA: APPLICABLE TO PARTIAL COMPONENT(S): MAY CONTRIBUTE TO THE EUTROPHICATION OF DRINKING-WATER SUPPLIES. DO NOT ALLOW TO ENTER WATERS, WASTE WATERS, OR SOIL!

-- SECTION 13 - DISPOSAL CONSIDERATIONS -

WASTE DISPOSAL: CHEMICAL RESIDUES ARE GENERALLY CLASSIFIED AS SPECIAL WASTE AND THUS COVERED BY LOCAL REGULATIONS. CONTACT LOCAL AUTHORITIES OR DISPOSAL COMPANIES FOR ADVICE.

HANDLE CONTAMINATED PACKAGING IN THE SAME WAY AS THE SUBSTANCE ITSELF.

---- SECTION 14 - TRANSPORT INFORMATION -

LAND TRANSPORT: ADR/RID: 9, II UN-NO.: 3316 NAME: CHEMICAL KIT

SEA TRANSPORT: IMDG: 9/UN 3316/PG II NAME: CHEMICAL KIT

AIR TRANSPORT: ICAO/IATA: 9/UN 3316/PG II NAME: CHEMICAL KIT

THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK!

--- SECTION 15 - REGULATORY INFORMATION -

LABELING ACCORDING TO EC DIRECTIVES:

SYMBOL: T: TOXIC

R-PHRASES:

43-45-23/24/25-52/53: MAY CAUSE SENSITIZATION BY SKIN CONTACT. MAY CAUSE CANCER. ALSO TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC

S-PHRASES:

36/37-45-53: WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE). AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTION BEFORE USE.

CONTAINS: SULFANILIC ACID, CADMIUM POWDER.

- SECTION 16 - OTHER INFORMATION -

TEXT OF ANY R PHRASES REFERRED TO UNDER HEADING 2:

22: HARMFUL IF SWALLOWED.

26/27/28: VERY TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

36/38: IRRITATING TO EYES AND SKIN.

43: MAY CAUSE SENSITIZATION BY SKIN CONTACT.

45: MAY CAUSE CANCER.

50/53: VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

SUPERSEDES EDITION OF: SEPTEMBER 2003.

REASON FOR REVISION: GENERAL UPDATE.

LEGEND: NA: NOT APPLICABLE

ND: NOT DETERMINED

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.

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