



Petra Battery Cleaner & Detector

1.- IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

PRODUCT FORM: LIQUID

TRADE NAME: BATTERY CLEANER &

DETECTOR PRODUCT CODE: 9020

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

PRODUCT DESIGNED TO DETECT BATTERY LEAKS AND CLEAN ACIDS.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Petra Oil Company, Inc.
6100 West by Northwest Blvd.
Ste 190
Houston, Texas 77040
PH. NU. 888-738-7261

1.4 EMERGENCY PHONE NUMBER: CHEMTREC: (800) 424-9300

2.- HAZARDS IDENTIFICATION

2.1 CLASSIFICATION (GHS-US)

ACUTE TOXICITY, INGESTION (CATEGORY 4)

SKIN IRRITATION (CATEGORY 2)

EYE IRRITATION (CATEGORY 2B)

2.2 LABEL ELEMENTS

PICTOGRAMS



SIGNAL WORD: **WARNING**



SDS

Safety Data Sheet

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HAZARD STATEMENTS

H302 HARMFUL IF SWALLOWED
H315 CAUSES SKIN IRRITATION
H320 CAUSES EYE IRRITATION

PRECAUTIONARY STATEMENTS

PREVENTION

P264: WASH HANDS THOROUGHLY AFTER HANDLING.
P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P102: KEEP OUT OF REACH OF CHILDREN.
P103: READ LABEL BEFORE USE

RESPONSE

P301+P312 IF SWALLOWED: CALL A DOCTOR IF YOU FEEL UNWELL
P330 RINSE MOUTH.
P302+P352 IF ON SKIN: WASH WITH PLENTY OF WATER
P321 SPECIFIC TREATMENT (SEE 4.3 ON THIS SDS).
P332+P313 IF SKIN IRRITATION OCCURS: GET MEDICAL ATTENTION
P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO – CONTINUE RINSING
P337+P313 IF EYE IRRITATION PERSISTS GET MEDICAL ADVICE/ATTENTION.

STORAGE

DISPOSAL

P501 DISPOSE CONTENTS BY NEUTRALIZING IT WITH A MILD ACID

2.3 OTHER HAZARDS

CHRONIC HEALTH EFFECTS

CAUSTIC MATERIALS MAY CAUSE SEVERE DERMATITIS, CONJUNCTIVITIS, BLINDNESS AND SERIOUS LUNG DAMAGE IN CHRONIC EXPOSURES. PERSONS WITH PREEXISTENT OCULAR AND LUNG DISORDERS MAY BE MORE SUSCEPTIBLE TO THIS PRODUCT.

2.4 UNKNOWN ACUTE TOXICITY

NO DATA AVAILABLE



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3.- COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

NOT APPLICABLE

3.2 MIXTURES

NAME	CAS NUMBER	%	CLASSIFICATION
POTASSIUM HYDROXIDE	1310-58-3	< 5 %	AC TOX ING 4 H302 SKIN IRR 2 H315 EYE IRR 2B H320

4.- FRIST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

EYE CONTACT: IMMEDIATELY WASH EYES WITH PLENTY WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: IMMEDIATELY WASH SKIN WITH PLENTY OF NEUTRAL SOAP AND WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING SEPARATELY BEFORE REUSE OR DISCARD. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INHALATION: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GIVE AT LEAST 3-4 GLASSES OF WATER. KEEP AFFECTED PERSON WARM AND AT REST. GET IMMEDIATE MEDICAL ATTENTION

NEVER GIVE ANYTHING IN THE MOUTH TO AN UNCONSCIOUS PERSON.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

EXPOSURE CAN CAUSE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

INHALATION MAY RESULT IN SPASM, INFLAMMATION , AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTIONAND SPECIAL TREATMENT NEEDED

ORAL TOXICITY

A) MANAGEMENT OF MILD TO MODERATE ORAL TOXICITY



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1) PERFORM EARLY (WITHIN 12 HOURS) ENDOSCOPY IN PATIENTS WITH STRIDOR, DROOLING, VOMITING, SIGNIFICANT ORAL BURNS, DIFFICULTY SWALLOWING OR ABDOMINAL PAIN, AND IN ALL PATIENTS WITH DELIBERATE INGESTION. IF BURNS ARE ABSENT OR GRADE I SEVERITY, PATIENT MAY BE DISCHARGED WHEN ABLE TO TOLERATE LIQUIDS AND SOFT FOODS BY MOUTH. IF MILD GRADE II BURNS, ADMIT FOR INTRAVENOUS FLUIDS, SLOWLY ADVANCE DIET AS TOLERATED. PERFORM BARIUM SWALLOW OR REPEAT ENDOSCOPY SEVERAL WEEKS AFTER INGESTION (SOONER IF DIFFICULTY SWALLOWING) TO EVALUATE FOR STRICTURE FORMATION.

B) DILUTION

1) DILUTE WITH 4 TO 8 OUNCES OF WATER MAY BE USEFUL IF IT CAN BE PERFORMED SHORTLY AFTER INGESTION IN PATIENTS WHO ARE ABLE TO SWALLOW, WITH NO VOMITING OR RESPIRATORY DISTRESS; THEN THE PATIENT SHOULD BE NPO UNTIL ASSESSED FOR THE NEED FOR ENDOSCOPY. NEUTRALIZATION, ACTIVATED CHARCOAL, IPECAC AND GASTRIC LAVAGE ARE ALL CONTRAINDICATED.

C) PATIENT DISPOSITION

1) OBSERVATION CRITERIA: PATIENTS WITH ALKALINE CORROSIVE INGESTION SHOULD BE SENT TO A HEALTH CARE FACILITY FOR EVALUATION. PATIENTS WHO REMAIN ASYMPTOMATIC OVER 4 TO 6 HOURS OF OBSERVATION, AND THOSE WITH ENDOSCOPIC EVALUATION THAT DEMONSTRATES NO BURNS OR ONLY MINOR GRADE I BURNS AND WHO CAN TOLERATE ORAL INTAKE CAN BE DISCHARGED HOME.

2) ADMISSION CRITERIA: SYMPTOMATIC PATIENTS, AND THOSE WITH ENDOSCOPICALLY DEMONSTRATED GRADE II OR HIGHER BURNS SHOULD BE ADMITTED. PATIENTS WITH RESPIRATORY DISTRESS, GRADE III BURNS, ACIDOSIS, HEMODYNAMIC INSTABILITY, GASTROINTESTINAL BLEEDING, OR LARGE INGESTIONS SHOULD BE ADMITTED TO AN INTENSIVE CARE SETTING.

D) PITFALLS

1) THE ABSENCE OF ORAL BURNS DOES NOT RELIABLY EXCLUDE THE POSSIBILITY OF SIGNIFICANT ESOPHAGEAL BURNS.

2) PATIENTS MAY HAVE SEVERE TISSUE NECROSIS AND IMPENDING PERFORATION REQUIRING EARLY SURGICAL INTERVENTION WITHOUT HAVING SEVERE HYPOTENSION, RIGID ABDOMEN, OR RADIOGRAPHIC EVIDENCE OF INTRAPERITONEAL AIR.

3) PATIENTS WITH ANY EVIDENCE OF UPPER AIRWAY INVOLVEMENT REQUIRE EARLY AIRWAY MANAGEMENT BEFORE AIRWAY EDEMA PROGRESSES.

4) THE EXTENT OF EYE INJURY (DEGREE OF CORNEAL OPACIFICATION AND PERILIMBAL WHITENING) MAY NOT BE APPARENT FOR 48 TO 72 HOURS AFTER THE BURN. ALL PATIENTS WITH CORROSIVE EYE INJURY SHOULD BE EVALUATED BY AN OPHTHALMOLOGIST.

INHALATION EXPOSURE

A) DECONTAMINATION: ADMINISTER OXYGEN AS NECESSARY. MONITOR FOR RESPIRATORY DISTRESS.

B) AIRWAY MANAGEMENT: MANAGE AIRWAY AGGRESSIVELY IN PATIENTS WITH SIGNIFICANT RESPIRATORY DISTRESS, STRIDOR OR ANY EVIDENCE OF UPPER AIRWAY EDEMA. MONITOR FOR HYPOXIA OR RESPIRATORY DISTRESS.



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C) BRONCHOSPASM:TREAT WITH OXYGEN, INHALED BETA AGONISTS AND CONSIDER SYSTEMIC CORTICOSTEROIDS.

EYE EXPOSURE

A) DECONTAMINATION

1) EXPOSED EYES SHOULD BE IRRIGATED WITH COPIOUS AMOUNTS OF 0.9% SALINE FOR AT LEAST 30 MINUTES, UNTIL PH IS NEUTRAL AND THE CUL DE SACS ARE FREE OF PARTICULATE MATERIAL.

2) AN EYE EXAMINATION SHOULD ALWAYS BE PERFORMED, INCLUDING SLIT LAMP EXAMINATION. OPHTHALMOLOGIC CONSULTATION SHOULD BE OBTAINED. ANTIBIOTICS AND MYDRIATICS MAY BE INDICATED.

DERMAL EXPOSURE

A) OVERVIEW

1) DECONTAMINATION: REMOVE CONTAMINATED CLOTHES AND ANY PARTICULATE MATTER ADHERENT TO SKIN. IRRIGATE EXPOSED SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES OR LONGER, DEPENDING ON CONCENTRATION, AMOUNT AND DURATION OF EXPOSURE TO THE CHEMICAL. A PHYSICIAN MAY NEED TO EXAMINE THE AREA IF IRRITATION OR PAIN PERSIST.

5.- FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA: ALCOHOL FOAM, CO₂, DRY CHEMICAL FOAM, WATER FOG.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NON FLAMMABLE LIQUID.

HAZARD COMBUSTION PRODUCTS: NOT DETERMINED

AUTO IGNITION TEMPERATURE: NOT DETERMINED.

5.2 ADVICE FOR FIREFIGHTERS

PERSONAL PROTECTION: FIREFIGHTERS MUST WEAR NIOSH APPROVED POSITIVE PRESSURE BREATHING APPARATUS (SCBA) WITH FULL FACE MASK AND FULL PROTECTIVE EQUIPMENT.

SPECIAL FIREFIGHTING PROCEDURES: SCBA SHOULD BE USED WHENEVER CHEMICAL FIRES

SPECIAL PROCEDURES: COOL CONTAINERS EXPOSED TO FIRE. RETAIN EXTINGUISHING WATER TO AVOID WATER POLLUTION.



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6.- ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 FOR NON-EMERGENCY PERSONNEL

EVACUATE UNNECESSARY PERSONNEL

6.1.2 FOR EMERGENCY RESPONDERS

THE FOLLOWING STEPS SHOULD BE FOLLOWED IN CASE MATERIAL IS RELEASED OR SPILLED: PERSON NOT WEARING PROTECTIVE EQUIPMENT AND CLOTHING SHOULD BE RESTRICTED FROM CONTAMINATED AREAS UNTIL HAS BEEN COMPLETED.

1. DO NOT TOUCH THE SPILLED MATERIAL; STOP THE LEAK IF IT IS POSSIBLE TO DO SO WITHOUT RISK.
2. NOTIFY SAFETY PERSONNEL.
3. REMOVE ALL SOURCES OF HEAT AND IGNITION.
4. VENTILATE POTENTIALLY EXPLOSIVE ATMOSPHERES USING MAXIMALLY EXPLOSION-PROOF EQUIPMENT.
5. USE NONSPARKING TOOLS FOR CLEANUP.
6. WATER SPRAY MAY BE USED TO REDUCE VAPORS, BUT THE SPRAY MAY NOT PREVENT IGNITION IN CLOSED SPACES.

6.2 ENVIRONMENTAL PRECAUTIONS

PREVENT ENTRY TO SEWERS AND PUBLIC WATERS. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWERS OR PUBLIC WATERS.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

FOR SMALL LIQUID SPILLS, TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CLOSED CONTAINERS FOR LATER DISPOSAL.

FOR LARGE LIQUID SPILL, BUILD DIKES FAR AHEAD OF THE SPILL TO CONTAIN THE MATERIAL FOR LATER RECLAMATION OR DISPOSAL

6.4 REFERENCE TO OTHER SECTIONS

SEE HEADING 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

7.- HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

AVOID CONTACT WITH EYES, SKIN OR CLOTHES. KEEP CONTAINERS CLOSED. WASH HANDS AFTER USE. KEEP IN A DRY, WELL VENTILATED AREA.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN TIGHTLY CLOSED AND PROPERLY LABELED CONTAINERS IN COOL, DRY ISOLATED, WELL-VENTILATED AREA AWAY FROM HEAT, SOURCES OF IGNITION AND INCOMPATIBLES.

EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE WITHOUT ADEQUATE PRECAUTIONS.



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DO NOT EAT, DRINK OR SMOKE IN AREAS OF USE OR STORE.

7.3 SPECIFIC END USES

FOLLOW LABEL DIRECTIONS

8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

EXPOSURE LIMITS

INGREDIENT	AEGL 1	AEGL 2	AEGL 3	TWA	STEL	NIOSH REL	OSHA PEL	IDLH
	60 MIN	60 MIN	60 MIN	8 H	15 MIN	TWA	TWA	
	PPM	PPM	PPM	PPM	mg/cu m	10 H (mg/cu m)	8 H (mg/cu m)	PPM
POTASSIUM HYDROXIDE	N/D	N/D	N/D	N/D	2	2	2	N/D

8.2 EXPOSURE CONTROLS

VENTILATION: USE LOCAL EXHAUST OR DILUTION VENTILATION AS APPROPRIATE TO CONTROL EXPOSURES TO BELOW PERMISSIBLE LIMITS DURING THE USE OF THIS PRODUCT.

SKIN PROTECTION: WHERE THE CONTACT IS LIKELY, WEAR CHEMICAL RESISTANT GLOVES. AVOID SKIN CONTACT WITH THIS MATERIAL.

EYE PROTECTION: DO NOT WEAR CONTACT LENSES. WEAR SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES. HAVE EYE WASHING FACILITIES READILY AVAILBLE WHERE EYE CONTACT CAN OCCUR.

RESPIRATORY PROTECTION: NOT NEEDED UNDER NORMAL USE CONDITIONS.

9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	CLEAR LIQUID
ODOR	MIDLY ALKALINE
OLFATIVE THRESHOLD	N/D
PT-CO COLOR	PINK
PH	10 - 12
MELTING POINT	N/D
EVAPORATION RATE	N/D
SPECIFIC GRAVITY	1.072 g/ml
BOILING POINT	N/D
VISCOSITY @25°C	< 10 cps
FLASH POINT (CCC)	N/D
PUNTO DE CONGELAMIENTO	N/D
VAPOR PRESSURE (mmHg)	N/D
VAPOR DENSITY	N/D
DESCOMPOSITION TEMPERATURE	N/D
WATER SOLUBILITY	SOLUBLE



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9.2 OTHER INFORMATION

NO ADDITIONAL INFORMATION AVAILABLE

10.- STABILITY AND REACTIVITY

10.1 REACTIVITY: NO ADDITIONAL INFORMATION AVAILABLE

10.2 CHEMICAL STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

10.3 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

10.4 CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAMES, HOT GLOWING SURFACES OR ELECTRICS ARCS.

10.5 INCOMPATIBILITY: AVOID CONTACT WITH ACIDS, METALS (WHEN WET), HALOGENATED HYDROCARBONS, MALEIC ANHYDRIDE

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, HYDROGEN GAS, POTASSIUM OXIDES.

11.- TOXICOLOGICAL INFORMATION

POTASSIUM HYDROXIDE

LD50 RAT ORAL 1.23 G/KG

LD50 RAT ORAL 273 MG/KG

12.- ECOLOGICAL INFORMATION

12.1 TOXICITY

POTASSIUM HYDROXIDE

TLM MOSQUITO FISH 80 PPM/24 HR FRESH WATER. /CONDITIONS OF BIOASSAY NOT SPECIFIED/

12.2 PERSISTENCE AND BIODEGRADABILITY

POTASSIUM HYDROXIDE

DATA NOT AVAILABLE

12.3 BIOACCUMULATIVE POTENTIAL

DATA NOT AVAILABLE

12.4 MOBILITY IN SOIL

DATA NOT AVAILABLE



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13.- DISPOSAL CONSIDERATIONS

NEUTRALIZATION AND DISCHARGE TO SEWER: CAREFULLY DISSOLVE IN WATER AND NEUTRALIZE WITH DILUTE ACETIC ACID. FLUSH TO SEWER WITH LOTS OF WATER, REGULATIONS PERMITTING OR DISPOSE OF THROUGH A LICENSED CONTRACTOR. CONSIDER USE OF WASTE CAUSTIC FOR NEUTRALIZING PLANT ACID WASTES.

14.- TRANSPORT INFORMATION

Secretaría de Comunicaciones y transportes (SCT) – NOM-002-SCT2/1994 (México)

Información general para la transportación de embarques.

Shipping name: Líquidos alcalinos cáusticos, nep (Contiene hidróxido de potasio) (Can be transported as Limited Quantity)

UN Number: 1719
Class/Division: 8
Packing Group: III
Label: see section 2.
Limited Quantity: 1 L

CANT. LTDA.

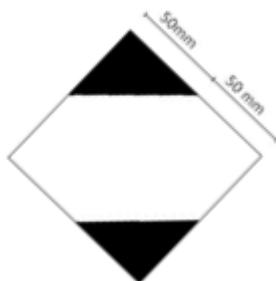


Fig. 1 Signal for containers with limited quantities.

According to NOM-011-SCT2/2012: 5.11 It is not necessary that containers/packages with hazardous substances or materials in limited quantities, have the Official Transport Name or UN number but must have the signal in Fig. 1. This signal must be clearly visible, legible and must be capable of withstanding weather exposure without suffering any degradation.

U.S. Department of Transportation (DOT) 49 – CFR 172

General Transportation Information for Bulk Shipments

Shipping name: Caustic alkali liquid, n.o.s. (Limited Quantity can be used caustic liquids not exceeding 5 L capacity)

UN/NA Number: 1719
Class/Division: 8
Packing Group: III
Label: see Section 2

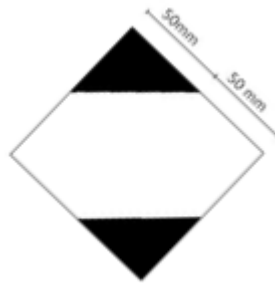


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Limited Quantity: 5 L per container

Special information (PHMSA): This product may be classified as LTD. QTY. when transported in quantities equal to or less than 5 L per container and 30 Kg per package, but must have the signal LIMITED QUANTITY (LIMITED QUANTITY).

LTD. QTY.



Signal for containers with limited quantities

International Maritime Dangerous Goods (IMDG) CODE General Transportation Information for Shipments

Shipping name: Caustic alkali liquid, n.o.s. (Limited Quantity can be used for flammable liquids not exceeding 5 L capacity)

UN/NA Number: UN 1719

Class/Division: 8

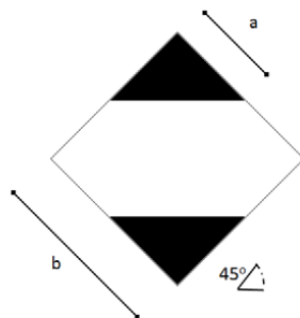
Packing Group: III

Label: see Section 2

Limited Quantity: 5 L per container

It can be classified as LIMITED QUANTITY for maritime transportation according to IMDG CODE, 3.2 COLUMN 7. According to the 35 ammendment of the same code, the following signal must be used for limited quantities transportation.

LTD. QTY.



$b = 100 \text{ mm}$

$a = 50 \text{ mm}$

For packages not able to accommodate 100 mm mark, then

$b \geq 50 \text{ mm}$

$a = 1/2b$

Mark must be placed at a 45° angle

Line must be black with minimum 2 mm thickness

Top and bottom shaded areas must be black

Center section may be white or same color as corrugate

Text of other marks inside the diamond are not permitted



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15.- REGULATORY INFORMATION

OCCUPATIONAL EXPOSURE LIMIT	POTASSIUM HYDROXIDE
AUSTRALIA	CEILING CONCENTRATION 2 MG/M ³ , JUL2008
BELGIUM	SHORT TERM EXPOSURE LIMIT 2 MG/M ³ , MAR2002
DENMARK	CEILING CONCENTRATION 2 MG/M ³ , OCT 2002
FINLAND	TIME-WEIGHTED AVERAGE 2 MG/M ³ , JAN1999
FRANCE	VLE 2 MG/M ³ , FEB2006
HUNGARY	TIME-WEIGHTED AVERAGE 2 MG/M ³ , SHORT TERM EXPOSURE LIMIT 2 MG/M ³ , SEP2000
JAPAN	OCCUPATIONAL EXPOSURE LIMIT-CONTINUOUS 2 MG/M ³ , APR2007
KOREA	CEILING CONCENTRATION 2 MG/M ³ , 2006
THE NETHERLANDS	MAC- CONTINUOUS 2 MG/M ³ , 2003
NEW ZEALAND	CEILING CONCENTRATION 2 MG/M ³ , JAN2002
NORWAY	TIME-WEIGHTED AVERAGE 2 MG/M ³ , JAN1999
SWEDEN	TIME-WEIGHTED AVERAGE 1 MG/M ³ ; SHORT TERM EXPOSURE LIMIT 2 MG/M ³ , (INHAL. DUST), JUN2005
SWITZERLAND	MAK- WEEK 2 MG/M ³ , DEC2006
UNITED KINGDOM	SHORT TERM EXPOSURE LIMIT 2 MG/M ³ , 2005
ARGENTINA, BULGARIA, COLOMBIA, JORDAN	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUE; CEILING CONCENTRATION 2 MG/M ³
SINGAPORE, VIETNAM	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH) THRESHOLD LIMIT VALUE CEILING CONCENTRATION 2 MG/M ³



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16. OTHER INFORMATION

NFPA CLASSIFICATION**HEALTH HAZARD: 1****FIRE: 0****REACTIVITY HAZARD: 1****ABBREVIATURES AND ACRONYMS****AEGL'S ACCUTE EXPOSURE GUIDELINE LIMITS**

AEGL-1 IS THE AIRBORNE CONCENTRATION, EXPRESSED AS PARTS PER MILLION OR MILLIGRAMS PER CUBIC METER (PPM OR MG/M3) OF A SUBSTANCE ABOVE WHICH IT IS PREDICTED THAT THE GENERAL POPULATION, INCLUDING SUSCEPTIBLE INDIVIDUALS, COULD EXPERIENCE NOTABLE DISCOMFORT, IRRITATION, OR CERTAIN ASYMPTOMATIC NONSENSORY EFFECTS. HOWEVER, THE EFFECTS ARE NOT DISABLING AND ARE TRANSIENT AND REVERSIBLE UPON CESSATION OF EXPOSURE.

AEGL-2 IS THE AIRBORNE CONCENTRATION (EXPRESSED AS PPM OR MG/M3) OF A SUBSTANCE ABOVE WHICH IT IS PREDICTED THAT THE GENERAL POPULATION, INCLUDING SUSCEPTIBLE INDIVIDUALS, COULD EXPERIENCE IRREVERSIBLE OR OTHER SERIOUS, LONG-LASTING ADVERSE HEALTH EFFECTS OR AN IMPAIRED ABILITY TO ESCAPE.

AEGL-3 IS THE AIRBORNE CONCENTRATION (EXPRESSED AS PPM OR MG/M3) OF A SUBSTANCE ABOVE WHICH IT IS PREDICTED THAT THE GENERAL POPULATION, INCLUDING SUSCEPTIBLE INDIVIDUALS, COULD EXPERIENCE LIFE-THREATENING HEALTH EFFECTS OR DEATH.

TWA TIME WEIGHED AVERAGE;**STEL** SHORT TERM EXPOUSRE LIMIT;**NIOSH** NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH**REL** RECOMMENDED EXPOSURE LIMIT;**OSHA** OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION**PEL** PERMISSIBLE EXPOSURE LIMIT**IDLH** IMMEDIATE DOSE LETHAL TO HUMANS;**GHS** GLOBAL HARMONIZING SYSTEM**N/D** NOT DETERMINED**N/A** NOT APPLICABLE**REFERENCES***NIOSH POCKET GUIDE**EUROPEAN CHEMICAL EDADNCY**WIRELESS INFORMATION SYSTEM FOR EMERGENCY RESPONDERS, NATIONAL LIBRARY OF MEDICINE**POISINDEX® Y MEDITEXT®* (THIS DATA BASES MUST BE CONSULTED POR ASSISTENCE IN CASE OF DIAGNOSTIC OR TREATMENT FOR SPECIFIC CASES)*CAMEO CHEMICALS DATABASE OF HAZARDOUS MATERIALS**OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION WEBPEDAD*

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