Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)
Works : Plot No. 68-69,G.I.D.C Industrial Estate,Nandesari,Vadodara-391340 (Gujarat)
Telefax : 91-265-2841531,2841532,2841534,2841535.
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SECTION1:Identificationofthesubstance/mixtureandofthecompany/undertaking

Productidentifiers

Productname : **Lead (II) Chloride**

CAS-No. : 7758-95-4

Relevantidentifiedusesofthesubstanceormixtureandusesadvisedagainst

Identifieduses : Laboratorychemicals,Industrial&forprofessionaluseonly.

Detailsofthesupplierofthesafetydata sheet

Company : Qualikems Lifesciences Pvt Ltd

Works : Plot No. 68.69,G.I.D.C
Industrial Estate, Nandesari,
Vadodara-391340 (Gujarat)

Emergency telephone number

Emergency Phone # : +91-265-2841531 (9:00am - 6:30 pm) [Office hours]

SECTION2:Hazardsidentification

Classificationofthesubstanceormixture

ClassificationaccordingtoRegulation(EC)No1272/2008

Acute toxicity, Oral (Category 4), H302
Acutetoxicity,Inhalation(Category4),H332
Carcinogenicity (Category 2), H351
Reproductivetoxicity(Category1A),H360Df
Specific target organ toxicity - repeated exposure (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronicaquatictoxicity(Category1),H410

ForthefulltextoftheH-StatementsmentionedinthisSection,seeSection16.

Labelelements

LabellingaccordingRegulation(EC)No1272/2008

Pictogram

Signalword Danger

Hazardstatement(s)	
H302 + H332	Harmfulifswallowedorifinhaled Suspected
H351	of causing cancer.
H360Df	Maydamage the unbornchild. Suspected of damagingfertility.
H372	Causesdamagetoorgansthroughprolongedorrepeatedexposure. Very
H410	toxic to aquatic life with long lasting effects.
Precautionarystatement(s)	
P201	Obtainspecialinstructionsbeforeuse.
P260	Donotbreathedust/fume/gas/mist/vapours/spray.
P280	Wearprotectivegloves/protectiveclothing/eyeprotection/face protection.
P301+P312+P330 P308	IFSWALLOWED:CallaPOISON CENTERor doctor/physicianif you feel unwell. Rinse mouth.
+ P313	IFexposed orconcerned:Getmedicaladvice/attention. none
SupplementalHazard Statements	
Restrictedtoprofessionalusers.	

Otherhazards

Thissubstance/mixturecontainsnocomponentsconsideredtobeeitherpersistent,bioaccumulativeand toxic (PBT), or verypersistent and verybioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION3:Composition/informationoningredients

Substances

Formula	:	Cl_2Pb
Molecularweight	:	278,10g/mol
CAS-No.	:	7758-95-4
EC-No.	:	231-845-5
Index-No.	:	082-001-00-6

HazardousingredientsaccordingtoRegulation(EC)No1272/2008

Component		Classification	Concentration
Leaddichloride			
CAS-No.	7758-95-4	AcuteTox.4;Carc.2;Repr.	<=100%
EC-No.	231-845-5	1A;STOTRE1;AquaticAcute	
Index-No.	082-001-00-6	1;AquaticChronic1;H302, H332,H351,H360Df,H372, H400, H410 Concentrationlimits: >=2,5%:Repr.2,H361f;>= 0,5%:STOTRE2,H373; M-Factor-AquaticAcute:10	

ForthefulltextoftheH-StatementsmentionedinthisSection,seeSection16.

SECTION4:Firstaidmeasures

Descriptionoffirstaidmeasures General

advice

Consultaphysician.Showthissafetydatasheettothedoctorinattendance.

Ifinhaled

Ifbreathedin,movepersonintofreshair.Ifnotbreathing,giveartificialrespiration.Consultaphysician.

Incaseofskincontact

Washoffwithsoapandplentyofwater.Takevictimimmediatelytohospital.Consultaphysician.

Incaseofeyecontact
Flusheyeswithwaterasaprecaution.

Ifswallowed
Nevergiveanythingbymouthtoanunconsciousperson.Rinsemouthwithwater.Consultaphysician.

Mostimportantsymptomsandeffects,bothacuteanddelayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indicationofanyimmediatemedicalattentionandspecialtreatmentneeded
Nodataavailable

SECTION5:Firefightingmeasures

Extinguishing

mediaSuitableextinguishing

media
Usewaterspray,alcohol-resistantfoam,drychemicalorcarbondioxide.

Specialhazardsarisingfromthesubstanceormixture
Hydrogenchloridegas,Leadoxides

Adviceforfirefighters
Wearself-containedbreathingapparatusforfirefightingifnecessary.

Furtherinformation
Nodataavailable

SECTION6:Accidentalreleasemeasures

Personalprecautions,protectiveequipmentandemergencyprocedures
Usepersonalprotectiveequipment.Avoiddustformation.Avoidbreathingvapours,mistorgas.Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Forpersonalprotectionseesection8.

Environmentalprecautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methodsandmaterialsforcontainmentandcleaningup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Referencetoothersections
Fordisposalseesection13.

SECTION7:Handlingandstorage

Precautionsforsafehandling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Avoid exposure - obtain special instructions before use.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

Conditionsforsafestorage,includinganyincompatibilities
Storeincoolplace.Keepcontainertightlyclosedinadryandwell-ventilatedplace.
Storageclass(TRGS510):Non-combustible,acutetoxicCat.3/toxichazardousmaterialsorhazardous materials causing chronic effects

Specificenduse(s)
Apartfromtheusesmentionedinsection1.2nootherspecificusesarestipulated

SECTION8:Exposurecontrols/personalprotection

Controlparameters

Componentswithworkplacecontrolparameters

Exposurecontrols

Appropriateengineeringcontrols

Handleinaccordancewithgoodindustrialhygieneandsafetypractice.Washhandsbeforebreaksandat the end of workday.

Personalprotectiveequipment

Eye/faceprotection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate governmentstandards such as NIOSH(US)or EN 166(EU).

Skinprotection

Handlewithgloves.Glovesmustbeinspectedpriortouse.Usepropergloveremovaltechnique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminatedglovesafteruseinaccordancewithapplicablelawsandgoodlaboratorypractices. Wash and dry hands.

BodyProtection

Complete suit protecting against chemicals, The type of protective equipment mustbe selected accordingtotheconcentrationandamountofthedangeroussubstanceatthespecificworkplace.

Respiratoryprotection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Controlofenvironmentalexposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION9:Physicalandchemicalproperties

Informationonbasicphysicalandchemicalproperties

a)	Appearance	Form:powder Colour:beige
b)	Odour	odourless
c)	OdourThreshold	Nodataavailable
d)	pH	Nodataavailable
e)	Melting point/freezing point	Meltingpoint/range:501°C-lit.
f)	Initial boiling point and boiling range	950°C-lit.
g)	Flashpoint	Notapplicable
h)	Evaporationrate	Nodataavailable
i)	Flammability(solid,gas)	Nodataavailable
j)	Upper/lower flammability or explosivelimits	Nodataavailable
k)	Vapourpressure	1hPaat547°C
l)	Vapourdensity	Nodataavailable
m)	Relativedensity	5,85g/mLat25°C

n)	Watersolubility	10.000g/lat19,9°C-OECDTestGuideline105
o)	Partition coefficient: n-octanol/water	Nodataavailable
p)	Auto-ignition temperature	Nodataavailable
q)	Decomposition temperature	Nodataavailable
r)	Viscosity	Nodataavailable
s)	Explosiveproperties	Nodataavailable
t)	Oxidizingproperties	Nodataavailable

Othersafetyinformation
Nodataavailable

SECTION10:Stabilityandreactivity

Reactivity
Nodataavailable

Chemicalstability
Stableunderrecommendedstorageconditions.

Possibilityof hazardousreactions
Nodataavailable

Conditionstoavoid
Nodataavailable

Incompatiblematerials
Strongoxidizingagents,Strongacids

Hazardousdecompositionproducts
Otherdecompositionproducts-Nodataavailable In the event of fire: see section 5

SECTION11:Toxicologicalinformation

Informationontoxicologicaleffects Acute

toxicity
LD50Oral-Rat->1.947mg/kg

Skincorrosion/irritation
Skin-reconstructedhumanepidermis(RhE)
Result:Noskinirritation
(EPISKINHumanSkinModelTest)

Seriouseyedamage/eyeirritation
Nodataavailable

Respiratoryorskinsensitisation
Nodataavailable

Germcellmutagenicity
Nodataavailable

Carcinogenicity

IARC: 2A-Group2A:Probablycarcinogenictohumans(Leaddichloride)

Reproductivetoxicity

Nodataavailable

Specifictargetorgantoxicity-singleexposure
Nodataavailable

Specifictargetorgantoxicity-repeatedexposure
Causes damage to organs through prolonged or repeated exposure. - Central nervous system, Kidney, Blood

Aspirationhazard
Nodataavailable

AdditionalInformation
RTECS:OF9450000

Leadsaltshavebeenreportedtocrosstheplacentaandtoinduceembryo-andfeto-mortality.Theyalso haveteratogeniceffectinsomeanimalspecies.Noteratogeniceffectshavebeenreportedwithexposure to organometallicleadcompounds.Adverse effectsof lead on humanreproduction, embryonic andfetal development, and postnatal(e.g.,mental) developmenthave been reported. Excessive exposure can affect blood,nervous,and digestive systems.The synthesis of hemoglobin is inhibited and results in anemia.If leftuntreated,neuromusculardysfunction,possibleparalysis,andencephalopathycanresult. Additionalsymptomsofoverexposureinclude:jointandmusclepain,weaknessoftheextensormuscles (frequentlythe hand and wrist), headache, dizziness,abdominal pain, diarrhea,constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High bodylevels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death. Tothebestofourknowledge,thechemical,physical,andtoxicologicalpropertieshavenotbeen thoroughly investigated.

SECTION12:Ecologicalinformation

Toxicity

Toxicity to fish	LC50-Pimephalespromelas(fatheadminnow)-0,81mg/l-96h
Toxicity to daphnia and otheraquatic invertebrates	EC50-Daphniamagna(Waterflea)-0,45mg/l-48h
Toxicitytoalgae	EC50-Skeletonemacostatum-0,019mg/l-72h

Persistence anddegradability
Nodataavailable

Bioaccumulativepotential
Nodataavailable

Mobilityinsoil
Nodataavailable

ResultsofPBTandvPvBassessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or verypersistent and verybioaccumulative (vPvB) at levels of 0.1% or higher.

Otheradverseeffects
Verytoxictoaquaticlifewithlonglastingeffects.

SECTION13:Disposalconsiderations

Wastetreatmentmethods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the materialwith a combustible solventand burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminatedpackaging
Disposeofasunusedproduct.

SECTION14:Transportinformation

UNnumber
ADR/RID:2291 IMDG:2291 IATA:2291

UNpropershippingname

ADR/RID: LEADCOMPOUND,SOLUBLE,N.O.S.(Leaddichloride)
IMDG: LEADCOMPOUND,SOLUBLE,N.O.S.(Leaddichloride)
IATA: Leadcompound,soluble,n.o.s.(Leaddichloride)

14.3Transporthazardclass(es)

ADR/RID:6.1 IMDG:6.1 IATA:6.1

14.4Packaging group

ADR/RID:III IMDG:III IATA:III

14.5Environmentalhazards

ADR/RID:yes IMDGMarinepollutant:yes IATA:no

14.6Specialprecautionsforuser

Nodataavailable

SECTION15:Regulatoryinformation

Safety,healthandenvironmentalregulations/legislationspecificforthesubstanceormixture

ThissafetydatasheetcomplieswiththerequirementsofRegulation(EC)No.1907/2006.

Authorisationsand/orrestrictionsonuse

REACH - Restrictions on the manufacture, placing on themarketanduseofcertaindangeroussubstances, preparationsandarticles(AnnexXVII) :Leaddichloride

Chemical Safety Assessment

Forthisproductachemicalsafetyassessmentwasnotcarriedout

SECTION16:Otherinformation

FulltextofH-Statementsreferredtoundersections2and3.

H302	Harmfulifswallowed.
H302 + H332	Harmfulifswallowedorifinhaled
H332	Harmful if inhaled.
H351	Suspectedofcausingcancer.
H360Df	Maydamagetheunbornchild.Suspectedofdamagingfertility.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged orrepeated exposure.
H373	Maycausedamagetoorgansthroughprolongedorrepeatedexposure.
H400	Very toxic to aquatic life.
H410	Verytoxictoaquaticlifewithlonglastingeffects.

Furtherinformation

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Qualikems Lifesciences Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.qualikems.com for additional terms and conditions of sale.