## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 1.6 10/17/2023 600000000020 Date of first issue: 02/13/2017

## **SECTION 1. IDENTIFICATION**

Trade name : KPS-5

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : United Initiators, Inc.

Address : 555 Garden Street

Elyria OH 44035 USA

United Initiators Canada Ltd. 2147 PG Pulp Mill Road

Prince George, BC-V2N 2S6 CANADA

Telephone : +1-440-323-3112

Telefax : +1-440-323-2659

Emergency telephone : CHEMTREC US (24h): +1-800-424-9300

CHEMTREC WORLD (24h): +1-703-527-3887 CANUTEC (24h): 1-613-996-6666

For Transportation Incidents : TERRAPURE EMERGENCY RESPONSE SERVICES (24h):

1-800-567-7455

E-mail address of person

responsible for the SDS

cs-initiators.nafta@united-in.com

Recommended use of the chemical and restrictions on use

Recommended use : Oxidizing agents

polymerization initiators

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Oxidizing solids : Category 3

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 10/17/2023 600000000020 Date of first issue: 02/13/2017 1.6

Respiratory sensitization Category 1

Skin sensitization Category 1

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

### **GHS** label elements

Hazard pictograms







Signal Word Danger

Hazard Statements H272 May intensify fire; oxidizer.

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation.

#### **Precautionary Statements** Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P284 Wear respiratory protection.

#### Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before

reuse

P370 + P378 In case of fire: Use water spray, alcohol-resistant

foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Persulphate

Solid

#### Components

|                                       | Common<br>Name/Synonym        | CAS-No.   | Concentration (% w/w) |
|---------------------------------------|-------------------------------|-----------|-----------------------|
| ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | Dipotassium peroxodisul-phate | 7727-21-1 | >= 95 - <= 100 *      |

Actual concentration or concentration range is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Do not leave the victim unattended.

Symptoms of poisoning may appear several hours later.

Call a physician immediately.

If inhaled : Call a physician or poison control center immediately.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathed in, move person into fresh air.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash contaminated clothing before re-use.

If on skin, rinse well with water.
If on clothes, remove clothes.
If symptoms persist, call a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Call a physician immediately. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed. Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Notes to physician : Treat symptomatically and supportively.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray jet

Foam

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire

fighting

Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-

accelerating decomposition reaction with release of flammable

vapors which may auto-ignite.

Cool closed containers exposed to fire with water spray.

Specific extinguishing meth-

ods

Do not use a solid water stream as it may scatter and spread

tire.

Remove undamaged containers from fire area if it is safe to do

## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 1.6 10/17/2023 600000000020 Date of first issue: 02/13/2017

SO.

Use water spray to cool unopened containers.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

Ensure adequate ventilation. Remove all sources of ignition.

Follow safe handling advice and personal protective

equipment recommendations.

Never return spills in original containers for re-use.

Treat recovered material as described in the section "Disposal

considerations".

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Contact with incompatible substances can cause

decomposition at or below SADT.

Clear spills immediately.

Suppress (knock down) gases/vapors/mists with a water spray

iet.

To clean the floor and all objects contaminated by this

material, use plenty of water.

Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to

determine which regulations are applicable.

## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 1.6 10/17/2023 600000000020 Date of first issue: 02/13/2017

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Keep away from combustible material.

Advice on safe handling : Do not swallow.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Take precautionary measures against static discharges. Never return any product to the container from which it was

originally removed.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid confinement.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Smoking, eating and drinking should be prohibited in the

application area.

Wash thoroughly after handling. For personal protection see section 8.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Protect from contamination. Protect from moisture.

Conditions for safe storage : Avoid impurities (e.g. rust, dust, ash), risk of decomposition.

Electrical installations / working materials must comply with

the technological safety standards.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Store in original container.

Keep containers tightly closed in a cool, well-ventilated place.

Keep in a dry place.

Store in accordance with the particular national regulations.

Materials to avoid : Keep away from strong acids, bases, heavy metal salts and

other reducing substances.

Recommended storage tem-

perature

< 30 °C

Further information on stor-

age stability

: No decomposition if stored normally.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components                   | CAS-No.   | Value type | Control parame-    | Basis     |
|------------------------------|-----------|------------|--------------------|-----------|
|                              |           | (Form of   | ters / Permissible |           |
|                              |           | exposure)  | concentration      |           |
| Dipotassium peroxodisulphate | 7727-21-1 | TWA        | 0.1 mg/m3          | CA AB OEL |

**Engineering measures** : Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Filter type : Filter type P

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : 0.47 mm

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.20 mm

Remarks : The data about break through time/strength of material are

standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the

hazardous substance and specific to place of work.

For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before

breaks and at the end of workday.

Eye protection : Tightly fitting safety goggles

Please wear suitable protective goggles. Also wear face

protection if there is a splash hazard.

Ensure that eyewash stations and safety showers are close

to the workstation location.

Please follow all applicable local/national requirements when

selecting protective measures for a specific workplace.

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Additional body garments should be used based upon the

## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 1.6 10/17/2023 600000000020 Date of first issue: 02/13/2017

task being performed (e.g., sleevelets, apron, gauntlets,

disposable suits) to avoid exposed skin surfaces.

Wear as appropriate:

Flame retardant antistatic protective clothing.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Hygiene measures : Keep away from food and drink.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid

Color : white

Odor : not significant

Odor Threshold : No data available

pH : 4

Concentration: ca. 10 g/l

Melting point/freezing point : Decomposition: Decomposes below the melting point.

Initial boiling point and boiling

range

Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not expected to form explosive dust-air mixtures.

Self-ignition : The substance or mixture is not classified as pyrophoric.

Upper explosion limit / Upper

flammability limit

Upper explosion limit

No data available

Lower explosion limit / Lower

flammability limit

Lower explosion limit No data available

## KPS-5



Date of last issue: 01/12/2022 Version Revision Date: SDS Number: 10/17/2023 600000000020 Date of first issue: 02/13/2017 1.6

Vapor pressure No data available

Relative vapor density Not applicable

Relative density not determined

Density not determined

Bulk density ca. 1,100 kg/m3

Solubility(ies)

Water solubility 60 g/l soluble (25 °C)

Partition coefficient: n-

octanol/water

Not applicable

Autoignition temperature not determined

Self-Accelerating decomposi-

tion temperature (SADT)

170 °C

Method: UN-Test H.4

SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a

self-accelerating decomposition reaction.

Viscosity

Not applicable Viscosity, dynamic

Viscosity, kinematic Not applicable

Explosive properties Not explosive

Oxidizing properties The substance or mixture is classified as oxidizing with the

category 3.

Self-heating substances The substance or mixture is not classified as self heating.

Particle size not determined

Particle Size Distribution  $D10 = 18 \mu m$ 

> Type of distribution: volume distribution Measurement technique: laser diffraction

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity Stable under recommended storage conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reac-

Avoid moisture.

tions Even small amounts of moisture or impurities can noticably

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

reduce the self-accelerating decomposition temperature

(SADT).

Conditions to avoid : Contact with incompatible substances can cause

decomposition at or below SADT.

Even small amounts of moisture or impurities can noticably reduce the self-accelerating decomposition temperature

(SADT).

Incompatible materials : Accelerators, strong acids and bases, heavy metals and

heavy metal salts, reducing agents

Hazardous decomposition

products

Irritant, caustic, flammable, noxious/toxic gases and vapours

can develop in the case of fire and decomposition

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

Harmful if swallowed.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 745.73 mg/kg

Method: Calculation method

## **Components:**

## Dipotassium peroxodisulphate:

Acute oral toxicity : LD50 (Rat, male): 742 mg/kg

Method: OECD Test Guideline 401

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Expert judgment

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Expert judgment

#### Skin corrosion/irritation

Causes skin irritation.

**Product:** 

Remarks : May cause skin irritation in susceptible persons.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

#### **Components:**

## Dipotassium peroxodisulphate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : May cause irreversible eye damage.

#### **Components:**

#### Dipotassium peroxodisulphate:

Species : Rabbit Result : Eye irritation

Method : OECD Test Guideline 405

## Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

## Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:** 

Remarks : Causes sensitization.

Assessment : May cause sensitization by skin contact.

Assessment : Probability of respiratory sensitization in humans based on

animal testing

## **Components:**

## Dipotassium peroxodisulphate:

Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitization by skin contact.

Routes of exposure : inhalation (dust/mist/fume)

Result : May cause sensitization by inhalation.

Remarks : Expert judgment

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

## Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

## Dipotassium peroxodisulphate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

## Carcinogenicity

Not classified based on available information.

#### **Components:**

## Dipotassium peroxodisulphate:

Species : Mouse
Application Route : Skin contact
Exposure time : 52 weeks

Method : OECD Test Guideline 451

Result : negative

## Reproductive toxicity

Not classified based on available information.

## **Components:**

## Dipotassium peroxodisulphate:

Effects on fertility : Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 421

Result: negative

Effects on fetal development : Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 421

Result: negative

## STOT-single exposure

May cause respiratory irritation.

## **Product:**

Assessment : May cause respiratory irritation.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

## **Components:**

## Dipotassium peroxodisulphate:

Assessment : May cause respiratory irritation.

#### STOT-repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

#### **Components:**

## Dipotassium peroxodisulphate:

Species : Rat

NOAEL : 1,000 mg/kg
LOAEL : 3,000 mg/kg
Application Route : Ingestion
Exposure time : 90 d

Method : OECD Test Guideline 408

## Aspiration toxicity

Not classified based on available information.

## **Further information**

**Product:** 

Remarks : No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

## **Components:**

## Dipotassium peroxodisulphate:

Toxicity to fish : LC50 (Scophthalmus maximus (turbot)): 107.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 120 mg/l

Exposure time: 48 h

Exposure time: 72 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Phaeodactylum): 320 mg/l

Method: OECD Test Guideline 201

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Phaeodactylum): 32 mg/l

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l

Exposure time: 18 h

Remarks: Based on data from similar materials

## Persistence and degradability

## **Components:**

#### Dipotassium peroxodisulphate:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

#### Bioaccumulative potential

#### Components:

## Dipotassium peroxodisulphate:

Partition coefficient: n-

octanol/water

Remarks: Not applicable

## Mobility in soil

No data available

### Other adverse effects

#### **Product:**

Additional ecological infor-

mation

No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

## Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

Dispose of in accordance with local regulations.

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

**UNRTDG** 

UN number : UN 1492

Proper shipping name : POTASSIUM PERSULPHATE

Class : 5.1
Packing group : III
Labels : 5.1

IATA-DGR

UN/ID No. : UN 1492

Proper shipping name : Potassium persulphate

Class : 5.1
Packing group : III
Labels : Oxidizer
Packing instruction (cargo : 563

aircraft)

Packing instruction (passen- : 559

ger aircraft)

**IMDG-Code** 

UN number : UN 1492

Proper shipping name : POTASSIUM PERSULPHATE

Class : 5.1
Packing group : III
Labels : 5.1
EmS Code : F-A, S-Q
Marine pollutant : no

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Domestic regulation**

**TDG** 

UN number : UN 1492

Proper shipping name : POTASSIUM PERSULPHATE

Class : 5.1
Packing group : III
Labels : 5.1
ERG Code : 140
Marine pollutant : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## KPS-5



Version Revision Date: SDS Number: Date of last issue: 01/12/2022 10/17/2023 600000000020 Date of first issue: 02/13/2017 1.6

#### **SECTION 15. REGULATORY INFORMATION**

The ingredients of this product are reported in the following inventories:

TCSI (TW) On the inventory, or in compliance with the inventory

TSCA (US) All substances listed as active on the TSCA inventory

AIIC (AU) On the inventory, or in compliance with the inventory

DSL (CA) All components of this product are on the Canadian DSL

ENCS (JP) On the inventory, or in compliance with the inventory

ISHL (JP) On the inventory, or in compliance with the inventory

KECI (KR) On the inventory, or in compliance with the inventory

PICCS (PH) On the inventory, or in compliance with the inventory

IECSC (CN) On the inventory, or in compliance with the inventory

TECI (TH) On the inventory, or in compliance with the inventory

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

## **SECTION 16. OTHER INFORMATION**

### **Further information**

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

These safety instructions also apply to empty packaging which may still contain product residues.

compile the Material Safety

Data Sheet

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Revision Date 10/17/2023 Date format mm/dd/yyyy

# Full text of other abbreviations

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA AB OEL / TWA : 8-hour Occupational exposure limit

## KPS-5



 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/12/2022

 1.6
 10/17/2023
 600000000020
 Date of first issue: 02/13/2017

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System: GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / Z8