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ANSHUL SPECIALTY MOLECULES PVT LTD.

TITLE: SDS OF WS-5

(According to Regulation (EC) No. 1907/2006)

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DOCUMENT NO.	QD/EHS/16/WS-5
REVISION NO.	00
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1. PRODUCT IDENTIFICATION

Product Name : WS 5

Chemical Name : N-(Ethoxycarbonyl methyl)-3-p-menthanecarboxamide

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company : Anshul Specialty Molecules Pvt. Ltd.

Flexcel Park ,C-wing ,2nd Floor,184-87,S.V.Road, Near 24 Karat Multiplex, Jogeshwari (West)

Mumbai-400 102 ,INDIA

Emergency telephone number

Emergency Phone # : +91 98194 90645

+91 88797 10202

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient : WS 5

CAS No : 39668 -74 - 1 EINECS NO : 254 - 573 - 9

Molecular Formula : --

3. HAZARD IDENTIFICATION

This substance is not classified as dangerous according to EU Directive 1999/45/EC

POTENTIAL HEALTH EFFECTS

Acute Health Effects : Contact of eyes with substances may cause irritation.

Chronic Health Effects : Contact of eyes with the substance may cause

irritation . Exposure to product dust may cause

respiratory irritation.

4. FIRST AID MEASURES

Eyes Contact : Flush with water for at least 15 minutes .If irritation develops get

medical attention.

Skin Contact : Remove contaminated clothing . Wash affected areas with plenty

of soap and water. If irritation develops, seek medical advice.

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Ingestion Drink lots of water to dilute substance .Get medical attention

immediately or contact a poison control center for advice

Inhalation : Seek fresh air immediately .If breathing is difficult, seek medical

advice..

5. FIRE FIGHTING MEASURES

Extinguishing Media Dry chemical Powder, Carbon Dioxide, Foam.

Flash Point 189.5°F (Tag Closed cup)

Auto ignition temp : Not determined.

Special Exposure Hazards Avoid heat, sparks and open flames.

Products

Hazardous Decomposition : Carbon dioxide, Carbon monooxide, acrid fumes

6. ACCIDENTAL RELEASE MEASURES

Environmental Protection:

Do not allow the substance or solutions of the substance to be discharged into lakes, streams, ponds or public waters.

Cleanup Procedures:

The material may be scooped into closed containers for recovery or disposal

7. HANDLING AND STORAGE

Wear safety glasses or goggles, rubber gloves and apron when handling Handling

material. If transferring to or from the container, use proper grounding

procedures.

Storage Do not store in close proximity to excessive heat, open flame, strong

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acids or strong bases .To minimize product degradation, avoid prolonged exposure of the substance to air .Keep container tightly closed when not in use.

Ventilation Ventilation is not normally required.

Safety Stations : An eyewash station should be readily available and clearly marked.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits : None found.

EXPOSURE CONTROLS

Eyes protection Wear Goggles. Or full face shield.

Hand protection Wear standard industrial type rubber gloves. :

Personal Hygiene Wash hand and other exposed area of skin soap and water after

handling the material.

Respiratory protection: If conditions are dusty, wear full face respirator with appropriate

cartridge

Environmental

Controls

No environmental exposure controls required under community

environmental protection laws.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid. :

Appearance White powder

Odour Mild brown sugar

Boiling Point $(> 350 \, {}^{\circ}\text{C})$

 $80 - 83^{\circ}C$ Melting point :

Volatiles (Weights %): 5.68%

 \cdot 0.3442 g/cm³ Specific gravity

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10. STABILITY AND REACTIVITY

Chemical Stability : Substance is stable and unreactive under conditions of normal

use.

Conditions to

avoid

Incompatibility with

other materials

: No special precaution required.

Avoid contact with strong acids and bases. Strong acids and

bases..

Hazardous : Carbon dioxide, carbon monoxide, acrid fumes

Decomposition

No Known conditions.

11. TOXICOLOGICAL INFORMATION

Primary Target Organ : Eyes, skin, respiratory tract.

Primary Entry Routes (s): Eyes, skin, ingestion inhalation.

Medical Condition

aggravated by Overexposure

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Acute Oral Toxicity : LD50 (rat): > 2500 mg/ kg . Ingestion : (based on clinical observations of menthol isomers in humans may be slightly toxic if

swallowed. Ingestion may cause gastrointestinal symptoms (nausea, vomiting, abdominal pain) and sensory effects (cold or burning sensation). Ingestion of very large amounts may cause CNS depression (fatigue dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over –exposure)

Acute Inhalation Toxicity: No data: - Inhalation may cause sensory effects (cold sensation) to

the larynx based on observed effects of I – Menthol in humans...

Acute Dermal Toxicity : Not determined – Based on observed effects of menthol isomers in

humans, WS-5 is expected to be minimally toxic if absorbed

through he skin.

Eye Irritancy : Mildly irritating to eyes. Can cause a temporary local anaesthetic

action on the eye.

Dermal Irritancy : May be mildly irritating to skin.

Skin Sensitization : No information

Mutagenicity : Non – Mutagenic :- Although WS-5 exhibited weak mutagenic

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Teratogenicity

potential in an in vitro bacteria gene mutation assay .Structural analogs of WS -5 menthol isomers, were negative in a variety of in vitro and in vivo tests for gene mutation and chromosome aberrations.

Not a teratogen: Not expected to be toxic to the developing embryo / fetus. No developmental toxicity data are available for WS-5. However surrogate data are available for the similar substance I-menthol. I — menthol administered orally to several species of laboratory animals at doses up to 425.0 mg /kg bwt/day, had no effect on maternal and fetal survival, was not maternally or fetotoxic and did not causes an increase in the incidence of abnormalities in soft and skeletal tissues. Studies are reported on a similar menthol derived coolant compound, WS-3. N-Ethyl-p-menthane-3-carboxamide,

(N-ETHYL-5-METHYL-2-(1-METHYLETHYL)-CYCLOHEXANE CARBOXAMIDE)

They showed that WS-3 administered by gavage at 70,350 and 700 mg/kg/day during gestation days 6 - 20, produced maternal toxicity and reduced fetal weight at the two highest dose levels and suggested a NOEL of 70 mg/kg.

Acute other

No Data.

Chronic Other

Not expected to be toxic to reproduction .No reproductive studies are available for WS-5 or its structural analogues, however repeated exposure studies with the structural analogue. WS-3 ,administered by the oral route to rats for 22 weeks at dose levels up to 725 mg/kg bwt/day and dl –menthol ,administered in the diet for up to 2 –years at up to 375 mg/kg bwt/day for rats and 667 mg/kg bwt/day for mice showed no effects on reproductive organs. There was also no adverse effect on maintenance of pregnancy in dams administered up to 700 mg/kg bwt/day of WS-3 on gestation days 6 -20. In addition, no adverse effects on reproductive organs were reported in an 11 week inhalation study in which male and female rats were exposed to 0.258 ppm 1 – menthol for 6.75 hours /day.

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12. ECOLOGICAL INFORMATION

SUPERSEDES

Ecotoxicity:

No test data exists for WS-5 . The following statements are derived from testing done on analogous substances and from the results of QSAR prediction : EPIWin v3.12

Predicted to show moderate acute toxicity to freshwater fish.

Predicted to show moderate acute toxicity to freshwater invertebrates.

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Predicted to be moderately toxic to freshwater algae.

May bind to organic material in soil, resulting in low soil mobility.

Predicted to be readily or inherently biodegradable. Hydrolytic stability undetermined.

Significant bioaccumulation is not expected (QSAR calculated BCF value = 25.2.

Persistence and degradability: Not determined.

Bioaccumulation Potential : Not determined.

Ozone Depleting Substances : None

13. DISPOSAL CONSIDERATIONS

Disposal Methods: This material if discarded, is not considered a hazardous waste by U.S. EPA regulation 40 CFR 261.

Safe handling of wastes: Refer to section 8 for information pertaining to personal protective equipment and exposure controls when handling this material for disposal

Community Provisions: Dispose of this material at a local, state or federally approved landfill, incinerator or recovery facility..

14. TRANSPORT INFORMATION

DOT Non - Bulk Shipping Name CHEMICALS N.O.I(GLYCINE,N-[[5-METHYL -2-(1-METHYLETHYL)CYCLOHEXYL]CARBONYL]-ETHYL

ESTER

DOT Bulk Shipping Name CHEMICALS N.O.I(GLYCINE,N-[[5-METHYL -2-(1-METHYLETHYL)CYCLOHEXYL]CARBONYL]-ETHYL

ESTER

DOT Label (s) : None

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ADR/RID Classification : Not regulated

IATA Classification : Not regulated.

IMDG Classification : Not regulated

Marine Pollutant : No

15. REGULATORY INFORMATION

EU Classifications:

Symbol Code (s): Irritant

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RISK PHRASES

R36 : Irritating to eyes

SAFETY PHRASES

S25 : Avoid contact with eyes.

U.S. NPCA/ HMIS Hazardous Material Information System

Health : 1
Flammability : 1
Reactivity : 1
Personal Protection : C

16. OTHER INFORMATION

The above information is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from it's use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall **Anshul Specialty Molecules Pvt. Ltd** .be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from use or reliance upon this information.

Current Issue : 25.09.2019