

**D 483 F (Acesulfame K)**

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.1                2020/09/03                000000033713            Date of first issue: 2019/07/03

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name                                : D 483 F (Acesulfame K)

Product code                                : 000000000021003945

**Manufacturer or supplier's details**

Company                                      : Celanese Pte Ltd

Address                                       : 60 Anson Road, Maple Tree Anson #13-02  
Singapore SG 079914

Telephone                                    :

Emergency telephone number : CHEMTREC: +1 703 527 3887

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**2. HAZARDS IDENTIFICATION****GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture., Handle in accordance with good industrial hygiene and safety practice.

**Other hazards which do not result in classification**

Dust can form an explosive mixture in air.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture                        : Substance

Chemical nature                              : Substance

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt	55589-62-3	100

No hazardous ingredients

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**4. FIRST AID MEASURES**

General advice                                : Do not leave the victim unattended.

If inhaled                                      : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact                      : If skin irritation persists, call a physician.

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If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.  
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.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

**5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water  
Foam  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous combustion products : Hazardous combustion products  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

Specific extinguishing methods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.

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- Environmental precautions : 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 : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Do not create a powder cloud by using a brush or compressed air.  
Non-sparking tools should be used.  
Keep in suitable, closed containers for disposal.
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**7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
During processing, dust may form explosive mixture in air.  
Take measures to prevent the build up of electrostatic charge.  
Do not empty bag over drums with ignitable gas mixtures.  
Use explosion-proof equipment.
- Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Minimize dust generation and accumulation.  
Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.  
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Keep away from oxidizing agents.
- Further information on storage stability : No decomposition if stored and applied as directed.
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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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Filter type	:	Particulates type
Hand protection	:	
Material	:	Nitrile rubber
Break through time	:	480 min
Glove thickness	:	1,5 mm
Protective index	:	Class 6
Material	:	butyl-rubber
Break through time	:	480 min
Glove thickness	:	0,7 mm
Protective index	:	Class 6
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	powder
Colour	:	white
Odour	:	odourless
pH	:	6,5 - 7,5 (20 °C)
Flash point	:	Not applicable
Evaporation rate	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Density	:	not determined
Bulk density	:	1.100 - 1.300 kg/m <sup>3</sup> (20 °C)

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Solubility(ies)  
Water solubility : 270 g/l (20 °C)

Auto-ignition temperature : > 210 °C

Decomposition temperature : not determined

Dust explosion class : St1

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**10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : Do not expose to temperatures above: 210 °C

Incompatible materials : Oxidizing agents

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Acute oral toxicity : LD50 (Rat): 5.438 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Species : Rabbit

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Result : No eye irritation  
Method : OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro cytogenicity study in mammalian cells  
Test system: Chinese hamster cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

Test Type: Chromosome aberration test in vitro  
Species: Mouse  
Method: OECD Test Guideline 475  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Species : Mouse  
Method : OECD Test Guideline 453  
Result : No evidence of carcinogenicity in animal studies.

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**Reproductive toxicity**

Not classified based on available information.

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Effects on fertility : Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 415  
Result: No toxicity to reproduction

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity****Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Species : Rat  
Application Route : Oral  
Method : OECD Test Guideline 408  
Remarks : No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks : No data available

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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 1.800 - 2.500 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC0 (Anaerobic bacteria): > 2.500 mg/l

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Test Type: Fermentation tube test

**Persistence and degradability****Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Biodegradability : Zahn-Wellens Test  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Method: OECD Test Guideline 302B

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : No data available

**Components:****6-methyl-1,2,3-oxathiazin-4(3H)-one 2,2-dioxide, potassium salt:**

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**



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Not regulated as a dangerous good

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

Not applicable for product as supplied.

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**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.**

**Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health**

Hazardous substances that must be registered : Not applicable

**Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances**

Hazardous substances approved for use : Not applicable

Prohibited substances : Not applicable

Restricted substances : Not applicable

**Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials**

Type of Hazardous Materials Restricted to Import, Distribution and Supervision : Not applicable

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**16. OTHER INFORMATION**

Date format : yyyy/mm/dd

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; AIIC - 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

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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; 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

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