

Justification for the selection of a substance for CoRAP inclusion

Substance Name (Public Name): diiron tris(sulphate)
Chemical Group: inorganic
EC Number: 233-072-9
CAS Number: 10028-22-5
Submitted by: Lithuania
Date: 17/03/2015

Note

This document has been prepared by the evaluating Member State given in the CoRAP update.

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1 IDENTITY OF THE SUBSTANCE

1.1 Other identifiers of the substance

Table 1: Substance identity

| | |
|---|---|
| EC name: | diiron tris(sulphate) |
| IUPAC name: | iron(3+) trisulfate |
| Index number in Annex VI of the CLP Regulation | - |
| Molecular formula: | Fe ₃ /2H ₂ O ₄ S |
| Molecular weight or molecular weight range: | 399.9 |
| Synonyms/Trade names: | <i>Sulfuric acid, iron(3++) salt (3:2); Sulfuric acid, iron(3+) salt (3:2); Ferric sulfate; Iron persulfate; Iron sesquisulfate; Iron sulfate (2:3)</i> |

Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



1.2 Similar substances/grouping possibilities

-

2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

There is no harmonized classification for iron(3+) trisulfate.

2.2 Self classification

- In the registration

| Index No | International Chemical Identification | EC No | CAS No | Classification | | Spec. Conc. Limits, M-factors |
|----------|---------------------------------------|-----------|------------|---|------------------------------|-------------------------------|
| | | | | Hazard Class and Category Code(s) | Hazard statement code(s) | |
| | diiron tris(sulphate) | 233-072-9 | 10028-22-5 | Met. Corr. 1 Acute Tox. 4 Skin Irrit. 2 Eye Damage 1 | H290 H302 H315 H318 | |

- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:

| Index No | International Chemical Identification | EC No | CAS No | Classification | | Spec. Conc. Limits, M-factors |
|----------|---------------------------------------|-----------|------------|-----------------------------------|--------------------------|-------------------------------|
| | | | | Hazard Class and Category Code(s) | Hazard statement code(s) | |
| | diiron tris(sulphate) | 233-072-9 | 10028-22-5 | Skin Sens. 1 | H317 | |

2.3 Proposal for Harmonised Classification in Annex VI of the CLP

There are no any proposals for Harmonised Classification of iron(3+) trisulfate.

3 INFORMATION ON AGGREGATED TONNAGE AND USES

| | | | |
|--|---|---|---|
| From ECHA dissemination site | | | |
| <input type="checkbox"/> 1 – 10 tpa | <input type="checkbox"/> 10 – 100 tpa | <input type="checkbox"/> 100 – 1000 tpa | |
| <input type="checkbox"/> 1000 – 10,000 tpa | <input type="checkbox"/> 10,000 – 100,000 tpa | <input checked="" type="checkbox"/> 100,000 – 1,000,000 tpa | |
| <input type="checkbox"/> 1,000,000 – 10,000,000 tpa | <input type="checkbox"/> 10,000,000 – 100,000,000 tpa | <input type="checkbox"/> > 100,000,000 tpa | |
| <input type="checkbox"/> <1 >+ tpa (e.g. 10+ ; 100+ ; 10,000+ tpa) | | <input type="checkbox"/> Confidential | |
| | | | |
| <input checked="" type="checkbox"/> Industrial use | <input checked="" type="checkbox"/> Professional use | <input checked="" type="checkbox"/> Consumer use | <input checked="" type="checkbox"/> Closed System |
| | | | |

4 OTHER COMPLETED/ONGOING REGULATORY PROCESSES THAT MAY AFFECT SUITABILITY FOR SUBSTANCE EVALUATION

| | |
|---|---|
| <input type="checkbox"/> Compliance check, Final decision | <input type="checkbox"/> Dangerous substances Directive 67/548/EEC |
| <input type="checkbox"/> Testing proposal | <input type="checkbox"/> Existing Substances Regulation 793/93/EEC |
| <input type="checkbox"/> Annex VI (CLP) | <input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC |
| <input type="checkbox"/> Annex XV (SVHC) | <input type="checkbox"/> Biocidal Products Directive 98/8/EEC ; Biocidal Product Regulation (Regulation (EU) 528/2012) |
| <input type="checkbox"/> Annex XIV (Authorisation) | <input type="checkbox"/> Other (provide further details below) |
| <input type="checkbox"/> Annex XVII (Restriction) | |
| | |

5 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

5.1 Legal basis for the proposal

- Article 44(2) (refined prioritisation criteria for substance evaluation)
- Article 45(5) (Member State priority)

5.2 Selection criteria met (why the substance qualifies for being in CoRAP)

- Fulfils criteria as CMR/ Suspected CMR
- Fulfils criteria as Sensitiser/ Suspected sensitiser
- Fulfils criteria as potential endocrine disrupter
- Fulfils criteria as PBT/vPvB / Suspected PBT/vPvB
- Fulfils criteria high (aggregated) tonnage (*tpa* > 1000)
- Fulfils exposure criteria
- Fulfils MS's (national) priorities

5.3 Initial grounds for concern to be clarified under Substance Evaluation

| Hazard based concerns | | |
|--|--|--|
| CMR <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R | Suspected CMR ¹ <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R | <input type="checkbox"/> Potential endocrine disruptor |
| <input type="checkbox"/> Sensitiser | <input checked="" type="checkbox"/> Suspected Sensitiser ¹ | |
| <input type="checkbox"/> PBT/vPvB | <input type="checkbox"/> Suspected PBT/vPvB ¹ | <input type="checkbox"/> Other (please specify below) |
| Exposure/risk based concerns | | |
| <input checked="" type="checkbox"/> Wide dispersive use | <input checked="" type="checkbox"/> Consumer use | <input type="checkbox"/> Exposure of sensitive populations |
| <input type="checkbox"/> Exposure of environment | <input checked="" type="checkbox"/> Exposure of workers | <input type="checkbox"/> Cumulative exposure |
| <input type="checkbox"/> High RCR | <input checked="" type="checkbox"/> High (aggregated) tonnage | <input type="checkbox"/> Other (please specify below) |
| Lack of information on sensitizing properties. | | |
| At the current state of knowledge, it might become necessary to request further data on exposure from the registrant(s). | | |

¹ CMR/Sensitiser: known carcinogenic and/or mutagenic and/or reprotoxic properties/known sensitising properties (according to CLP harmonized or registrant self-classification or CLP Inventory)

Suspected CMR/Suspected sensitiser: suspected carcinogenic and/or mutagenic and/or reprotoxic properties/suspected sensitising properties (not classified according to CLP harmonized or registrant self-classification)

Suspected PBT: Potentially Persistent, Bioaccumulative and Toxic

5.4 Preliminary indication of information that may need to be requested to clarify the concern

| | |
|---|---|
| <input checked="" type="checkbox"/> Information on toxicological properties | <input type="checkbox"/> Information on physico-chemical properties |
| <input type="checkbox"/> Information on fate and behaviour | <input checked="" type="checkbox"/> Information on exposure |
| <input type="checkbox"/> Information on ecotoxicological properties | <input type="checkbox"/> Information on uses |
| <input type="checkbox"/> Information ED potential | <input type="checkbox"/> Other (provide further details below) |
| Further information on exposure may be requested. | |

5.5 Potential follow-up and link to risk management

| | | | |
|--|--------------------------------------|--|--|
| <input checked="" type="checkbox"/> Harmonised C&L | <input type="checkbox"/> Restriction | <input type="checkbox"/> Authorisation | <input type="checkbox"/> Other (provide further details) |
| Since the substance has no harmonized classification and is widely used it is advisable to prepare a dossier on the classification and labeling. | | | |