

Substance Name: adipic acid

EC Number: 204-673-3

CAS Number: 124-04-9

3. CLASSIFICATION AND LABELLING

3.1. Classification and labelling according to CLP / GHS

Name: Adipic acid; regulation no. 1272/2008 (GHS).

Implementation: EU

State/form of the substance: solid

Annex 1 Index number: 607-144-00-9

Classification

The substance is classified as follows:

- for physical-chemical properties:

Explosives:	Reason for no classification: conclusive but not sufficient for classification
Flammable gases:	Reason for no classification: conclusive but not sufficient for classification
Flammable aerosols:	Reason for no classification: conclusive but not sufficient for classification
Oxidising gases:	Reason for no classification: conclusive but not sufficient for classification
Gases under pressure:	Reason for no classification: conclusive but not sufficient for classification
Flammable liquids:	Reason for no classification: conclusive but not sufficient for classification
Flammable solids:	Reason for no classification: conclusive but not sufficient for classification
Self-reacting substances and mixtures:	Reason for no classification: conclusive but not sufficient for classification
Pyrophoric liquids:	Reason for no classification: conclusive but not sufficient for classification
Pyrophoric solids:	Reason for no classification: conclusive but not sufficient for classification
Self-heating substances and mixtures:	Reason for no classification: conclusive but not sufficient for classification
Substances and mixtures which in contact with water	Reason for no classification: conclusive but not sufficient for classification

emits flammable
gases:

Oxidising liquids: Reason for no classification: conclusive but not sufficient for classification

Oxidising solids: Reason for no classification: conclusive but not sufficient for classification

Organic peroxides: Reason for no classification: conclusive but not sufficient for classification

Corrosive to metals: Reason for no classification: conclusive but not sufficient for classification

- for health hazards:

Acute toxicity - oral: Reason for no classification: conclusive but not sufficient for classification

Acute toxicity -
dermal: Reason for no classification: conclusive but not sufficient for classification

Acute toxicity -
inhalation: Reason for no classification: conclusive but not sufficient for classification

Skin
corrosion/irritation: Reason for no classification: conclusive but not sufficient for classification

Serious damage/eye
irritation: Eye Irrit. 2 (Hazard statement: H319: Causes serious eye irritation.)

Respiration
sensitization: Reason for no classification: conclusive but not sufficient for classification

Skin sensitization: Reason for no classification: conclusive but not sufficient for classification

Aspiration hazard: Reason for no classification: conclusive but not sufficient for classification

Reproductive
Toxicity: Reason for no classification: conclusive but not sufficient for classification

Reproductive
Toxicity: Effects on
or via lactation: Reason for no classification: data lacking

Germ cell
mutagenicity: Reason for no classification: conclusive but not sufficient for classification

Carcinogenicity: Reason for no classification: conclusive but not sufficient for classification

Specific target organ
toxicity - single: Reason for no classification: conclusive but not sufficient for classification

Specific target organ
toxicity - repeated: Reason for no classification: conclusive but not sufficient for classification

- for environmental hazards:

Hazards to the aquatic environment: Reason for no classification: conclusive but not sufficient for classification

Hazardous to the atmospheric environment: Reason for no classification: conclusive but not sufficient for classification

Labelling

Signal word: Warning

Hazard pictogram

GHS07: exclamation mark

Hazard statements

H319: Causes serious eye irritation

Name: Adipic acid, self classification

Implementation: EU

State/form of the substance: solid

Classification

The substance is classified as follows:

- for physical-chemical properties:

Explosives: Reason for no classification: conclusive but not sufficient for classification

Flammable gases: Reason for no classification: conclusive but not sufficient for classification

Flammable aerosols: Reason for no classification: conclusive but not sufficient for classification

Oxidising gases: Reason for no classification: conclusive but not sufficient for classification

Gases under pressure: Reason for no classification: conclusive but not sufficient for classification

Flammable liquids: Reason for no classification: conclusive but not sufficient for classification

Flammable solids: Reason for no classification: conclusive but not sufficient for classification

Self-reacting substances and mixtures: Reason for no classification: conclusive but not sufficient for classification

Pyrophoric liquids: Reason for no classification: conclusive but not sufficient for classification

Pyrophoric solids: Reason for no classification: conclusive but not sufficient for classification

Self-heating Reason for no classification: conclusive but not sufficient for classification

substances and mixtures:

Substances and mixtures which in contact with water emits flammable gases: Reason for no classification: conclusive but not sufficient for classification

Oxidising liquids: Reason for no classification: conclusive but not sufficient for classification

Oxidising solids: Reason for no classification: conclusive but not sufficient for classification

Organic peroxides: Reason for no classification: conclusive but not sufficient for classification

Corrosive to metals: Reason for no classification: conclusive but not sufficient for classification

- for health hazards:

Acute toxicity - oral: Reason for no classification: conclusive but not sufficient for classification

Acute toxicity - dermal: Reason for no classification: conclusive but not sufficient for classification

Acute toxicity - inhalation: Reason for no classification: conclusive but not sufficient for classification

Skin corrosion/irritation: Reason for no classification: conclusive but not sufficient for classification

Serious damage/eye irritation: Eye Damage 1 (Hazard statement: H318: Causes serious eye damage.)

Respiration sensitization: Reason for no classification: conclusive but not sufficient for classification

Skin sensitization: Reason for no classification: conclusive but not sufficient for classification

Aspiration hazard: Reason for no classification: conclusive but not sufficient for classification

Reproductive Toxicity: Reason for no classification: conclusive but not sufficient for classification

Reproductive Toxicity: Effects on or via lactation: Reason for no classification: data lacking

Germ cell mutagenicity: Reason for no classification: conclusive but not sufficient for classification

Carcinogenicity: Reason for no classification: conclusive but not sufficient for classification

Specific target organ toxicity - single: Reason for no classification: conclusive but not sufficient for classification

Specific target organ toxicity - repeated: Reason for no classification: conclusive but not sufficient for classification

- for environmental hazards:

Hazards to the aquatic environment: Reason for no classification: conclusive but not sufficient for classification

Hazardous to the atmospheric environment: Reason for no classification: conclusive but not sufficient for classification

Labelling

Signal word: Danger

Hazard pictogram

GHS05: corrosion

Hazard statements

H318: Causes serious eye damage

3.2. Classification and labelling according to DSD / DPD

3.2.1. Classification and labelling in Annex I of Directive 67/548/EEC

Chemical name: Adipic acid; 67/548/EEC annex 1

Annex 1 Index number: 607-144-00-9

Classification

The substance is classified as follows:

- for health effects:

Xi; R36 Irritant; Irritating to eyes.

Labelling

Indication of danger:

Xi - irritant

R-phrases:

R36 - irritating to eyes

3.2.2. Self classification(s)

Chemical name: Adipic acid

Table 1. Classification according to Directive 67/548/EEC criteria

Endpoints	Classification	Reason for no classification	Justification for (non) classification can be found in section
Explosiveness		conclusive but not sufficient for classification	6.1
Oxidising properties		conclusive but not sufficient for classification	6.3
Flammability		conclusive but not sufficient for classification	6.2
Thermal stability		conclusive but not sufficient for classification	
Acute toxicity		conclusive but not sufficient for classification	5.2
Acute toxicity- irreversible damage after single exposure		conclusive but not sufficient for classification	5.2
Repeated dose toxicity		conclusive but not sufficient for classification	5.6
Irritation / Corrosion	Xi; R41 Irritant; Risk of serious damage to eyes.		5.3.4 and 5.4.3
Sensitisation		conclusive but not sufficient for classification	5.5.3
Carcinogenicity		conclusive but not sufficient for classification	5.8.3
Mutagenicity - Genetic Toxicity		conclusive but not sufficient for classification	5.7.3
Toxicity to reproduction-fertility		conclusive but not sufficient for classification	5.9.3
Toxicity to reproduction-development		conclusive but not sufficient for classification	5.9.3
Toxicity to reproduction - breastfed babies		data lacking	5.9.3
Environment		conclusive but not sufficient for classification	7.6

Labelling

Indication of danger:

Xi - irritant

R-phrases:

R41 - risk of serious damage to eyes
