

Delaphos REACH Categories

The following raw materials

Zinc Phosphate (CAS 231-944-3)

will have the following included in the exposure scenarios as requested by our customers:

(Based on ECHA proposals “User descriptor system May 2008” vs 1.2)

NB Draft variations to these codes have been published by ECHA (Oct 2009) but have yet to be adopted. However ERC definitions have been included for completeness and in expectation of their inclusion.

Sector of Use (SU):

SU1	Agriculture, Forestry, Fishery
SU2	Mining (including offshore industries)
SU3	Industrial Manufacturing (all)
SU4	Manufacture of food products
SU5	Manufacture of textiles, leather, fur
SU6	Manufacture of pulp, paper and paper products
SU7	Printing and reproduction of recorded media
SU8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU9	Manufacture of fine chemicals
SU10	Formulation [mixing] of preparations and/or re-packaging
SU11	Manufacture of rubber products
SU12	Manufacture of plastic products including compounding and conversion
SU13	Manufacture of other non-metallic mineral products eg plasters, cement
SU14	Manufacture of basic metals

SU15	Manufacture of fabricated metal products except machinery and equipment
SU16	Manufacture of computer, electronic and optical products, electrical equipment
SU17	General manufacturing eg machinery, equipment, vehicles, other transport equipment
SU18	Manufacture of furniture
SU19	Building and construction work
SU20	Health services
SU21	Private households (= general public = consumers)
SU22	Public domain (administration, education, entertainment, services, craftsmen)
SU23	Recycling

Process Category (PROC):

PROC 1	Use in closed process, no likelihood of exposure. Industrial setting
PROC 2	Use in closed, continuous process with occasional controlled exposure (eg sampling). Industrial setting
PROC 3	Use in closed batch process (synthesis or formulation). Industrial setting.
PROC 4	Use in batch and other process (synthesis) where opportunity for exposure arises. Industrial setting
PROC 5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Industrial setting
PROC 6	Calendering operations. Industrial setting.
PROC 7	Spraying in industrial settings and applications. Industrial setting
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities. Industrial or non-industrial setting

PROC 8b	
PROC 9	Transfer of substance or preparation into small containers (dedicated filling line including weighing). Industrial setting
PROC 10	Roller application or brushing of adhesives and other coating. Industrial or non-industrial setting
PROC 11	Spraying outside industrial settings or applications.
PROC 12	Use of blow agents in manufacture of foam. Industrial setting.
PROC 13	Treatment of articles by dipping and pouring. Industrial or non-industrial setting.
PROC 14	Production of preparations or articles by tableting, compression, extrusion, pelettisation. Industrial setting
PROC 15	Use as a laboratory agent. Non-industrial setting
PROC 16	Using material as fuel sources, limited exposure to unburned product to be expected. Industrial or non-industrial setting
PROC 17	Lubrication at high energy conditions and in partly open process. Industrial or non-industrial setting
PROC 18	Greasing at high energy conditions. Industrial or non-industrial setting
PROC19	Hand-mixing with intimate contact and only PPE available. Non-industrial setting
PROC20	Heat and pressure transfer fluids in dispersive use but closed systems.
PROC 21	Low energy manipulation of substances bound in materials and/or articles
PROC 24	High (mechanical) energy work-up of substances bound in materials and/or articles
PROC 25	Hot work operations with metals

Product Category (PC):

PC1	Adhesives, Sealants
PC5	Artists supply and hobby preparations
PC6	Automotive care products
PC8	Biocidal products (eg Disinfectants, pest control)
PC9	Coatings and paints, fillers, putties, thinners
PC10	Building and construction preparations not covered elsewhere
PC14	Metal surface treatment products, including galvanic and electroplating products
PC15	Non-metal surface treatment products
PC16	Heat transfer fluids
PC17	Hydraulic fluids
PC18	Ink and toners
PC19	Intermediate
PC22	Lawn and garden preparations including fertilizers
PC24	Lubricants, greases and release products
PC25	Metal working fluids
PC31	Polishes and wax blends
PC32	Polymer preparations and compounds
PC35	Washing and cleaning products (including solvent based products)
PC38	Welding and soldering products, flux products

Article Category (AC):

AC0	Other articles
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AC1-1	Passenger cars and motorcycles
AC1-2	Other vehicles : railway, aircraft, vessels, boats, trucks and associated transport equipment
AC2	Machinery and mechanical appliances thereof
AC3-1	Electrical and electronic products, eg computers, office equipment, video and audio recording, communication equipment
AC3-2	Electrical batteries and accumulators
AC3-3	Electrical and electronic products : household appliances (white ware)
AC3-4	Photographic and reprographic articles : cameras, video cameras
AC5-1	Fabrics, textiles and apparel : bedding and clothing
AC6	Leather products : apparel and upholstery
AC7-1	Metal products : cutlery, cooking utensils, pots, pans
AC7-2	Metal products: toys
AC7-3	Metal products: furniture
AC10-3	Rubber products : footwear
AC10-5	Other general rubber products
AC11-1	Wood and wood furniture : flooring
AC11-2	Wood and wood furniture : furniture
AC11-3	Wood and wood furniture : toys
AC12-1	Constructional articles and building material for indoor use : wall construction material, ceramic, metal, plastic and wood construction material, insulating material.
AC12-2	Constructional articles and building material for outdoor use : wall construction material, road surface material, ceramic, metal, plastic and wood construction material, insulating material.
AC13-3	Plastic products : toys.

AC38	Packaging material for metal parts, releasing grease/corrosion inhibitors.
AC39	Other articles releasing grease or corrosion inhibitors ; please specify.

Environmental Release Category (ERC):

ERC1	Manufacture of substances
ERC2	Formulation of preparations
ERC3	Formulation in materials
ERC4	Industrial use of processing aids in process and products, not becoming part of an article
ERC5	Industrial use resulting in inclusion into or onto a matrix
ERC6a	Industrial use resulting in manufacture of another substance (use of intermediate)
ERC6b	Industrial use of reactive processing aids
ERC7	Industrial use of substance in closed system
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8b	Wide dispersive indoor use of reactive substances in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix.
ERC8d	Wide dispersive outdoor use of processing aids in open systems
ERC8f	Wide dispersive outdoor use resulting in inclusion into or onto a matrix.
ERC9a	Wide dispersive indoor use of substances in closed systems
ERC9b	Wide dispersive outdoor use of substances in closed systems
ERC10a	Wide dispersive outdoor use of long-life articles and materials with low release
ERC10b	Wide dispersive outdoor use of long-life articles and materials with high or

	intended release
ERC11a	Wide dispersive indoor use of long-life articles and materials with low release

These tables include all of the codes relevant to the use of Delaphos notified to us directly or through our Agents. If you have any other codes you wish to see added, please contact us immediately.

Please note that these codes are continually being modified within the ratification processes of ECHA and you can obtain more information by visiting the ECHA website at http://echa.europa.eu/reach_en.asp

JPE have been in communications with the zinc consortium who will be co-ordinating the activities of the SIEF for zinc phosphate, with a target of Summer 2010 for LR-filling. We are currently awaiting further information from them regarding the preparation of the safety report. For your information a few years ago Zinc Phosphate was included in a European Risk Assessment process that involved extensive research into exposures to both Human Health and the Environment from zinc and zinc compounds. This information is expected be used in support of the safety report prepared by the SIEF.