

Regulatories, food contact and chemical inventories

Lucofin® 1400HN

Product Manufacturer

This product is manufactured by
LUCOBIT AG
Brühler Str. 60 / LyondellBasell B 100
D- 50389 Wesseling

Chemical Inventories

All ingredients in this product are in compliance with the following chemical inventories:

United States: Toxics Substances Control Act Inventory (TSCA)

Canada: Domestic Substances List (DSL)

Europe: European Inventory of Existing Chemical Substances (EINECS)

Australia: Australian Inventory of Chemical Substances (AICS)

Korea: Korean Existing Chemicals List (KECL)

Japan: Japanese Inventory (ENCS)

The Philippines: Philippines Inventory of Chemicals and Chemical Substances (PICCS)

China: Chinese Inventory List

This product has no special requirements under US TSCA (e.g. consent orders, test rules, 12(b) requirements, etc.).

Food Contact

European Union (EU) Food Contact

The composition of this product complies with the following Legislations, Recommendations or Communications for the production of food packaging.

AUSTRIA: "K.V.O." N.476/2003 as amended at last by BGBl - Teil. II - N.325/2007

BELGIUM: "Arrete royal du 5 juillet 2006 (amending Arrete royal du 11 mai 1992 and modifying "Arrete royal du 3 juillet

2005")

DENMARK: Bekendtgørelse N. 1068 (13/11/2009).

FINLAND: "KTM", Paatos 953/2002 of 12.11.2002 (amended by 107/2009 of 03/03/2009)

FRANCE: "Materiaux au contact des aliments et de denre destine a l'alimentation humaine" Brochure n.1227 edition Janvier 1994 as updated.

Arrete du 02 Janvier 2003 (as modified at last by Arrete 19/11/2008).

GERMANY:

Bedarfsgegenstaendeverordnung- 30 November 2006 (BGBl I S.2730)

GREECE: AXE Decision n.458/2003 modified by Decision n. 454/2008

IRELAND: S.I. No. 587 of 2007, as amended by S.I. No.88 of 2009

ITALY: "Decreto Ministeriale del 21/03/1973" amended on 26/4/1993 : D.M. N.220 and following updates (last update: D.M. of 23/04/2009).

LUXEMBOURG: "Reglement Grand-Ducal" n. 163 du 05/11/2008.

NORWAY: "Kongelig resolusjon" of 11 March 1976 and updated 21/12/1993 N.1381 (Chapter II, Section 11)

PORTUGAL: Decreto-Lei n.º 197/2007 de 15 de Maio, amended by Decreto-Lei n.62/2008 de 31 de Março

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SPAIN: Real Decreto N.118 31/01/2003 modified by Real Decreto N.103/2009 of 06/02/2009.

SWEDEN: Food regulation LIVSFS 2003:2 as amended by LIVSFS 2009:2.

THE NETHERLANDS: Staatscourant n.1659 of 10.12.2008.

ENGLAND: "The Plastic Materials and Articles in Contact with Food (England) Regulations 2009", Statutory Instrument 2009 n.205

SWITZERLAND: BGVO 817.023.21 of 23 November 2005, as amended.

CZECH REPUBLIC: Regulation of the Ministry of Health N.551/2006 modifying N.38/2001

The monomers used to produce the resin are listed in EU Directive 2002/72/EC and amendments up to Regulation 975/2009/EC.

The additives used to produce the resin are listed in EU Directive 2002/72/EC and amendments up to Regulation 975/2009/EC or in the relevant national legislations.

The additives/monomers for which a QM was imposed by Regulations (if any) are under our own responsibility.

No dual use additives subject to a restriction in food are used to produce this resin.

There is a SML specified for a monomer in this resin. The monomer subject to migration in this resin is nBA:n- Butylacrylat CAS 141-32-2 with SML(T) = 6 mg/kg.

EU Directive 2002/72/EC and amendments up to Regulation 975/2009/EC, which applies to all EU Member States,

specifies 10 mg/dm² as the maximum overall migration from finished plastic food contact articles. This is the responsibility of the converter.

In accordance with EU Directive 2002/72/EC and amendments up to Regulation 975/2009/EC the migration should be measured using the actual foodstuff or the appropriate food simulants at the real time/temperature conditions of use, according to the rules specified in EU Directives 97/48/EC (amending 82/711/EEC) and 85/572/EEC.

We remind you that the users must verify that the finished items, manufactured according to good technology practice, must not modify the organoleptic properties of the food.

This product does not comply with FDA regulations for food contact.

Traceability of raw materials

All raw materials used for the products are traceable.

Tallow

Tallow derived additives are not intentionally used in the manufacture of or formulation of this product.

Bovine Spongiform Encephalopathy (BSE)/ Transmissible Spongiform Encephalopathy (TSE)/"Mad Cow"

We do not use components derived from animal sources in the manufacture of or formulation of this product.

Kosher

We do not certify our resins to be Kosher or in compliance with Kosher requirements.

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European Pharmacopeia (EP)

This product has not been tested for E.P.

Drug Master File (DMF)

Information on this product is not listed in a DMF.

US Pharmacopeia (USP)

This product has not been tested for USP Class VI.

Latex

„Natural rubber latex“, „dry natural rubber“, „synthetic latex“ or „rubbers that contain natural rubber“ are not used in the manufacture of or the formulation of this product.

Heavy metals (ELV Directive 2000/53/EC and its following amendments)

The quantity (statistically evaluated) of Cd, Pb, Cr(VI), Hg present in this grade is deemed below the limits given in Annex II (Note) of the Decision 2005/673/EC of September 20th (amending Annex II of Directive 2000/53/EC) which establishes:

0.1% Lead

0.1% Chromium

0.1% Mercury

0.01% Cadmium

Restriction of the use of certain hazardous substances (RoHS, Directive 2002/95/EC and its following amendments)

The chemical substances as listed in RoHS, Directive 2002/95/EC and its following amendments are not used in the manufacture of our formulation of this product. However, this product has not been tested for these chemical substances.

Coalition of Northeastern Governors (CONEG)

Cadmium, chromium (VI), lead and mercury are not used in the manufacture of or the formulation of this product. In

addition, this product meets the CONEG requirements of less than 100 ppm for total incidental cadmium, chromium, lead and mercury.

European Union (EU) Directive - Packaging and Packaging Waste - 94/62/EC (as amended)

Cadmium, chromium (VI), lead and mercury are not used in the manufacture of or the formulation of this product. This product meets the year 2001 requirements of less than 100 ppm for total incidental cadmium, chromium (VI), lead and mercury. In addition, this product has the potential to be recycled according to these requirements.

California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product presents „no significant risk“ for cancer to the people of California. This product contains no substances known to the State of California to cause reproductive toxicity at a level of exposure subject to the requirements of Proposition 65.

Butylated Hydroxytoluene (BHT) and Butylated Hydroxyanisole (BHA)

BHT and BHA are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

Ozone Depleting Chemicals (ODCs)

Class I and Class II ODCs (as defined in Montreal Protocol) dealt in the Regulation 2037/2000/EC and following amendments, are not used in the manufacture of or formulation of this product.

Toys

This product complies with the requirements in CEN Standard EN71.3.

The phthalates listed in Annex of Directive 2005/84/EC

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(Annex I of Directive 76/769/EEC) are not intentionally added in the manufacture of or the formulation of this product in a concentration above the given limits.

Phthalates

The phthalates for which opinions have been given by EFSA (European Food Safety Authority) and TDI's (Tolerable Daily Intake) established for use in plastics for containers in food applications, are not intentionally added in the manufacture of or the formulation of this product. The phthalates are di-iso-nonyl phthalate (DINP), di-(2-ethylhexyl) phthalate (DEHP), di-n-butyl phthalate (DBP), di-iso-decyl phthalate (DIDP), butylbenzyl phthalate (BBP).

In addition, di-iso-butyl phthalate (DIBP) has recently been classified by TC C&L of ECB (Commission Working Group on Classification & Labelling - European Chemicals Bureau) in accordance with the requirements of Directive 67/548/EC (Classification and labelling of dangerous substances), taking into account a NOAEL (No Observed Adverse Effect Level) supplied by European Industry. Based on the NOAEL, the toxicity of DIBP is more than 100 times lower than DNBPs (product assessed by EFSA for use in plastics in contact with food).

LUCOBIT AG is aware of the publicity about phthalate plasticizers. Phthalate plasticizers are in general used in specific non-olefinic resin systems to soften these resins and make them flexible. When phthalate plasticizers are added, they can constitute up to 50% of the resultant plastic material. LUCOBIT AG does not use any plasticizers in the resins it supplies. Polyolefins do not require the use of plasticizers to make them soft and flexible. Those phthalate plasticizers that have been associated with potential health issues, specifically di(2-ethylhexyl) phthalate (DEHP), di-iso-nonyl phthalate (DINP), di-iso-decyl phthalate (DIDP), di-n-butyl phthalate (DBP) and butyl benzyl phthalate (BBP), are not intentionally used by LUCOBIT AG in the manufacture of

or formulation of its resins. Phthalates are not used in the manufacture of or the formulation of this product. However, we do not test this product for phthalates.

Acrylamide

Acrylamide (CAS number 79-06-1) is not used in the manufacture of or the formulation of this product. However, we do not test this product for acrylamide.

Aromatic Amines

Aromatic amines are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

Asbestos

Asbestos is not used in the manufacture of or formulation of this product. However, this product has not been tested for this chemical substance.

Azocolourants

Azocolourants are not used in the manufacture of or formulation of this product. However, this product has not been tested for this chemical substance.

Benzophenon

Benzophenon is used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Biocides

Biocides are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

Bisphenol A

Bisphenol A is not used in the manufacture of or the formulation of this product. However, this product has not been

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tested for this chemical substance.

CFC's & HCFC's

CFC's & HCFC's are not used in the manufacture of or the formulation of this product. However, this product has not been tested for this chemical substance.

Chlorine

Elemental Chlorine is not used in the manufacture of or the formulation of this product. However, we do not test this product for epichlorohydrin.

Colophonium

Colophonium and its derivatives are not used in the manufacture of or the formulation of this product. However, we do not test this product for Colophonium.

DCP & 3-MCPD

1,3-Dichloro-2-propanol (DCP) and 3-Monochloro-1,2-propanediol (3-MCPD) are not used in the manufacture of or the formulation of this product. However, we do not test this product for DCP or 3-MCPD.

2,2'-Dimethoxy-2-phenylacetophenon

4-Methylbenzophenon is used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Dioxin

Dioxin is not used in the manufacture of or formulation of this product. Dioxin is not known to be formed during processing of this product.

Dimethylfumarates (DMF)

DMF are not used in the manufacture of our formulation of

this product. However, this product has not been tested for this chemical substance.

Epichlorohydrin

Epichlorohydrin (CAS number 106-89-8) is not used in the manufacture of or the formulation of this product. However, we do not test this product for epichlorohydrin.

Glyoxal (Ethandial)

Glyoxal (Ethandial) is not used in the manufacture of or the formulation of this product. However, this product has not been tested for these chemical substances.

Lindane

Lindane is not used in the manufacture of or formulation of this product. However, this product has not been tested for this chemical substance.

4-Methylbenzophenon

4-Methylbenzophenon is used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Halogens

Halogens are not used in the manufacture of our formulation of this product. However, this product has not been tested for these chemical substances.

4-Hydroxybenzophenon

4-Hydroxybenzophenon is used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Nonylphenol

Nonylphenol and Nonylphenol ethoxylates are not used in the manufacture of or the formulation of this product. However, this product has not been tested for these chemi-

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cal substances.

Polycyclic Aromatic Hydrocarbons (PAH or PAK)

PAH are not used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Organo-tin Compounds

Tributyl-tin (TBT), dibutyl-tin (DBT), monobutyl-tin (MBT) or any other organo-tin compounds are not used in the manufacture of or the formulation of this product.

Pentachlorophenol (PCP)

Pentachlorophenol (PCP) is not used in the manufacture of or formulation of this product. However, this product has not been tested for this chemical substance.

Pestizides

Pestizides are not used in the manufacture of or in the formulation of this product.

Perfluorooctane Sulphonate (PFOS)

PFOS are not used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Phosphorus

Phosphorus is not used in the manufacture of our formulation of this product. However, this product has not been tested for this chemical substance.

Polychlorinated Biphenyls (PCBs), Polybrominated Biphenyls (PBBs), Polychlorinated Terphenyls (PCTs), Polybrominated Diphenyl Ethers (PBDEs) and Polybrominated Terphenyls (PBTs)

Polychlorinated biphenyls (PCBs), polybrominated biphenyls (PBBs), polychlorinated terphenyls (PCTs), polybrominated diphenyl ethers (PBDEs) and polybrominated terphenyls (PBTs) are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

Silicons

Silicons are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

Vinyl Chloride

Vinyl chloride (CAS number 75-01-4) is not used in the manufacture of or the formulation of this product. However, we do not test this product for vinyl chloride.

Regulation (EC) N.1895/2005

BADGE, NOGE and BFDGE are not used in the manufacture of or the formulation of this product according to requirement of Regulation N.1895/2005.

Switzerland „VOC-LENKUNGSABGABE“

This product contains less than 3% VOC's of the substances in the positive lists of the above Regulations.

Composting - CEN Standard prEN 13432

This product is not suitable for composting.

Energy Recovery - CEN Standard prEN 13431

The calorific gain from polyethylene in an energy recovery process is 22 MJ/Kg

Ultimately customers must make their own determination that their use of our product is safe, lawful (except as provided in the above certifications) and technically suitable in

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their intended applications.

This certificate shall continue in effect for 1 year from its effective date unless it is modified before. If, during such 1 year period, LUCOBIT AG changes the product formulation such that this information is no longer accurate, LUCOBIT AG will notify you (normally by e-mail). LUCOBIT AG shall not notify you in case changes in the regulations occur.

LUCOBIT AG recommends that customers continuing to use our product verify status frequently and at least every year from the issue date of this document

Printed by an electronic system, valid without signature.
Approved on December 8, 2010. Valid for 1 year.

The given statement is the result of our product examination and corresponds to our present knowledge. Any rights as well as existing laws are to be observed in its own responsibility by the recipient of our products.