

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 23/09/2014

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name. : Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
 Use of the substance/mixture : Temperature indicator

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.  
 Parc Industriel de la Plaine de  
 l'Ain - Allée des Combès.  
 01150.BLYES.France.  
 Phone: +33 (0)4 74 46 23 23  
 Fax: +33 (0)4 74 46 23 29  
 E-mail: info@eu.laco.com  
 Web: http://www.markal.com



#### 1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC  
 U.S. : 1-800-424-9300  
 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárud tér 2	+36 80 20 11 99

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavík	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Rīga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral)	H302
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R21/22

Xi; R36/38

R52/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS06

Signal word (CLP)

: Danger.

Hazardous ingredients

: benzimidazole-2-thiol

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled  
H311 - Toxic in contact with skin  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume  
P264 - Wash hands thoroughly after handling

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER/doctor if you feel unwell  
P321 - Specific treatment (see Section 4 on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with local and national regulations

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Components with health hazards present above the applicable thresholds or with Exposure Limit values are shown. Exact concentrations withheld as trade secret.

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
benzimidazole-2-thiol	(CAS No) 583-39-1 (EC no) 209-502-6	60 – 80	Xn; R21/22 Xi; R36/38 R52/53	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
adipic acid	(CAS No) 124-04-9 (EC no) 204-673-3 (EC index no) 607-144-00-9	5 – 15	Xi; R36	Eye Irrit. 2, H319

Full text of R-, H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Sand.

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No specific fire or explosion hazard.

Hazardous decomposition products in case of fire : Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus. EN 469.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

#### 6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. protective gloves. In case of inadequate ventilation wear respiratory protection.

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Use neoprene or rubber gloves. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid. Avoid generating dust.

Methods for cleaning up : Take up in non-combustible absorbent material and shove into container for disposal. Minimize generation of dust.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible products : Strong acids. Strong oxidizers. Strong bases.

Incompatible materials : Sources of ignition.

### 7.3. Specific end use(s)

Temperature indicator.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

adipic acid (124-04-9)		
Belgium	Local name	Acide adipique
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	Local name	Adipic acid
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	Remark (ACGIH)	URT irr; ANS impair
Latvia	Local name	Adipīnskābe (1,4-butāndikarbonskābe)
Latvia	OEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Denmark	Local name	Adipinsyre (1996)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

adipic acid (124-04-9)		
Ireland	Local name	Adipic acid
Ireland	OEL (8 hours ref) (mg/m3)	5 mg/m <sup>3</sup>
Lithuania	Local name	Adipino rūgštis
Lithuania	IPRV (mg/m3)	4 mg/m <sup>3</sup>
Poland	Local name	Kwas adypinowy pyły
Poland	NDS (mg/m3)	5 mg/m <sup>3</sup>
Poland	NDSch (mg/m3)	10 mg/m <sup>3</sup>
Poland	Remark (PL)	pyły
Portugal	Local name	Ácido adípico
Portugal	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls	: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration. Dust impervious gloves. EN 374.
Eye protection	: Chemical goggles or safety glasses. EN 166.
Skin and body protection	: Wear suitable protective clothing. Impervious clothing. EN 702.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083.
Thermal hazard protection	: Flame retardant clothing should be used when handling in molten state.
Other information	: Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: Gray.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 302 °C / 575 °F (300, 302 °C)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 0 %
-------------	-------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Avoid creating or spreading dust. Contact with incompatible materials. Keep away from sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides. Nitrogen oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** : Harmful if swallowed. Toxic in contact with skin. Harmful if inhaled.

Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)	
ATE (oral)	500.000 mg/kg bodyweight
ATE (dermal)	300.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h

adipic acid (124-04-9)	
LD50 oral rat	5560 mg/kg
LD50 dermal rabbit	7940 ml/kg
LC50 inhalation rat (mg/l)	> 7.7 mg/l/4h
ATE (oral)	5560.000 mg/kg bodyweight

benzimidazole-2-thiol (583-39-1)	
LD50 oral rat	218 mg/kg
LD50 dermal rabbit	500 mg/kg
LC50 inhalation rat (ppm)	14.22252 ppm/4h
ATE (oral)	218.000 mg/kg bodyweight
ATE (dermal)	500.000 mg/kg bodyweight
ATE (gases)	14.223 ppmV/4h
ATE (vapours)	11.000 mg/l/4h
ATE (dust,mist)	1.500 mg/l/4h

**Skin corrosion/irritation** : Causes skin irritation.  
**Serious eye damage/irritation** : Causes serious eye irritation.  
**Respiratory or skin sensitisation** : Not classified (Based on available data, the classification criteria are not met)  
**Germ cell mutagenicity** : Not classified (Based on available data, the classification criteria are not met)  
**Carcinogenicity** : Not classified (Based on available data, the classification criteria are not met)  
**Reproductive toxicity** : Not classified (Based on available data, the classification criteria are not met)  
**Specific target organ toxicity (single exposure)** : Not classified (Based on available data, the classification criteria are not met)  
**Specific target organ toxicity (repeated exposure)** : Not classified (Based on available data, the classification criteria are not met)

adipic acid (124-04-9)	
NOAEL (oral,rat,90 days)	750 mg/kg bodyweight/day

**Aspiration hazard** : Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

adipic acid (124-04-9)	
LC50 fishes 1	>= 1000 mg/l 96 h
EC50 Daphnia 1	46 mg/l 48 h

benzimidazole-2-thiol (583-39-1)	
LC50 fishes 1	161 mg/l 48 h
EC50 Daphnia 1	14.16675 mg/l 48 h

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 12.2. Persistence and degradability

Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)	
Persistence and degradability	May cause long-term adverse effects in the environment.
adipic acid (124-04-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 % 5 d
benzimidazole-2-thiol (583-39-1)	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

adipic acid (124-04-9)	
BCF fish 1	3.162
Log Pow	0.093
benzimidazole-2-thiol (583-39-1)	
Log Pow	1.45

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)	
PBT: not yet assessed	
vPvB: not yet assessed	

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.
EURLW code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
H code	: H5 - 'Harmful': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks. H6 - 'Toxic': substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute or chronic health risks and even death. H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation. H14 - 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No.	: 2811
UN-No.(IATA)	: 2811
UN-No. (IMDG)	: 2811
UN-No.(ADN)	: 2811

### 14.2. UN proper shipping name

Proper Shipping Name	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	: TOXIC SOLID, ORGANIC, N.O.S.
Transport document description	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (benzimidazole-2-thiol), 6.1, III, (E)

### 14.3. Transport hazard class(es)

Class (UN)	: 6.1
Classification code (UN)	: T2
Class (IATA)	: 6



# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Class (IMDG) : 6.1  
Class (ADN) : 6.1  
Classification code (ADN) : T2  
Division (IATA) : 6.1

### 14.4. Packing group

Packing group (UN) : III  
Packing group (IATA) : III  
Packing group (IMDG) : III  
Packing group (ADN) : III

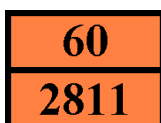
### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60  
Classification code (UN) : T2  
Orange plates :



Tunnel restriction code : E  
EAC code : 2X

#### 14.6.2. Transport by sea

EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-A  
Stowage category (IMDG) : A

#### 14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions  
Contains no REACH candidate substance  
VOC content : 0 %

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 2 - hazardous to water  
WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:  
Original Document.



# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### Data sources

: ACGIH 2000.

Canadian Centre for Occupational Health and Safety. Accessed at:  
[http://www.ccohs.ca/oshanswers/legisl/whmis\\_classifi.html](http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html).

ESIS (European chemical Substances Information System; accessed at:  
<http://esis.jrc.ec.europa.eu/index.php?PGM=cla>.

European Chemicals Agency (ECHA) Registered Substances list. Accessed at  
<http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.  
OSHA 29CFR 1910.1200 Hazard Communication Standard.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at  
<http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

### Abbreviations and acronyms

: ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population.

OSHA: Occupational Safety & Health Administration.

PBT: Persistent, Bioaccumulative, Toxic.

PNEC: Predicted No Effect Level.

STEL: Short Term Exposure Limits.

TSCA: Toxic Substances Control Act.

TWA: Time Weight Average.

### Other information

: None.

### Full text of R-, H- and EUH-phrases::

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H412	Harmful to aquatic life with long lasting effects
R21/22	Harmful in contact with skin and if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Xi	Irritant
Xn	Harmful.

### Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C) classification:

Acute Tox. 3 (Dermal)	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method
Acute Tox. 4 (Oral)	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method
Aquatic Chronic 3	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method
Eye Irrit. 2	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method
Skin Irrit. 2	<input type="checkbox"/> On basis of test data	<input checked="" type="checkbox"/> Calculation method

# Thermomelt® HEAT-STIK Marker 575 °F (300, 302 °C)

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

---

**SDS Prepared by:** The Redstone Group, LLC  
6397 Emerald Pkwy.  
Suite 200  
Dublin, OH USA 43016  
T 614-923-7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

LA-CO EU CLP SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*