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Issue Date: 09/11/2020
Last Revision Date: N/A
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Version Number: 01

SAFETY DATA SHEET

Product Code: SIMSPECS

SECTION 1 PRODUCT IDENTIFICATION

Product name KIBISAN®

This safety data sheet pertains to the following products:
PN-106 L150, PN-107 L125, PN-117 L100, PN-117 L200, PN-117C, PN-127 L100, PN-127 L150, PN-127 L200, PN-127H and PN-137H.

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Mixture used for the production of molded plastic articles

SECTION 2 HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified as hazardous (polymeric state)

Classification according to Regulation (EC) N° 1272/2008 (CLP): Not classified as hazardous (polymeric state)

Label elements Not labelled as hazardous

Other hazards vPvB/PBT assessment: not available

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Composition of the substance/ preparation

Substance or Preparation Substance

Content

Ingredients	CAS Number
Acrylonitrile-Styrene Copolymer	9003-54-7
Additives	-

Impurities Contributing to Hazard None

Additional information

Reach Info

	Registration No.
Acrylonitrile	01-2119474195-34-0045
Styrene	01-2119457861-32-0006 01-2119457861-32-0007 01-2119457861-32-0057 01-2119457861-32-0065 01-2119457861-32-0081

For full text of R- and H-phrases see section 16

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SECTION 4 FIRST AID MEASURES

Description of first aid measures

General notes Remove affected persons from the danger area, at the same time ensuring your own safety. Remove all contaminated clothing immediately

Following inhalation In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically

Following skin contact In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice

Following eye contact In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary

Following ingestion Induce vomiting. Rinse mouth with water. Seek medical advice if necessary

Self-protection of the first aider -

Most important symptoms & effects both acute & delayed

Dust Skin irritation, eye irritations and redness

Indication of any immediate medical attention and special treatment needed -

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents Water, foam, dry chemical powder

For safety reasons unsuitable extinguishing agents -

Special hazards arising from the substance or mixture -

Advice for firefighters

Protective equipment Self-contained breathing apparatus

Further measures -

Additional information -

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures
Pellets or powder remained on ground may cause slipping
Wear protective equipment
Ensure adequate ventilation
Keep away from ignition sources
Keep unprotected persons away

Environmental precautions Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.
Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water,
sewage system or soil

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Methods and material for containment and cleaning up	Recovery if not contaminated or disposal
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Protective measures	-
Measures to prevent fire	Prevent from fire around handling area
Measures to prevent aerosol and dust generation	Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.
Measures to protect the environment	-
Advice on general occupational hygiene	-

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.
Requirements for storage rooms and vessels	-
Suitable materials and coating	-
Unsuitable materials or coatings	-
Further information on storage conditions	-

Specific end use(s)

Recommendations	-

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	None established

Exposure control

Appropriate engineering controls	Install eyes washer and shower in the place of operation. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits
Personal protection	- Respiratory protection: Wear masks for cleaning molding machines - Hand protection: Heat-insulting gloves when handling molten form - Eye protection: Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines - Skin and body protection: Gloves necessary for handling melted resin - Hygiene measures: Wash hands after handling

Environmental exposure controls

Product related measures to prevent exposure	None specific
Instruction measures to prevent exposure	None specific
Organizational measures to prevent exposure	None specific
Technical measures to prevent exposure	None specific
Environmental exposure controls	Do not allow product to reach sewage system or water bodies

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Pellet	**Vapour density**	Not applicable
Odour	Very slight sweet aromatic	**Specific gravity**	Approx. 1.06 kg/m3
Colour	Transparent	**Bulk density**	Approx. 300-450 kg/m3
Odour threshold	Not Established	**Solubility in water**	Insoluble
pH	Not applicable	**Solubility (non aqueous)**	Benzene, Acetone, Methyl Ethyl Ketone(MEK), and Dimethyl formamide (DMF)
Melting point / freezing point	93 ~ 110°C (200 ~ 230°F)	**Auto-ignition temperature**	No self-igniting
Initial boiling point and boiling range	Not applicable	**Decomposition temperature**	> 300 °C
Flash point	>400 °C	**Viscosity**	Not applicable
Evaporation rate	Not applicable (Butyl acetate = 1)	**Explosive properties**	Not explosive
Flammability (solid, gas)	Not available	**Oxidizing properties**	Not oxidizing
Upper/lower flammability or explosive limits	Not applicable		
Vapour pressure	Not applicable		

Other safety information -

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal handling and storage conditions
Chemical stability	Stable under normal handling and storage conditions
Possible hazardous reaction	-
Conditions to avoid	Avoid excessive heat, flames and all sources of ignition
Incompatible materials	Not applicable
Hazardous decomposition products	Not applicable

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological effects

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data. May cause irritations.
- Eye damage/irritation: Lack of data. May cause irritations.
- Sensitisation to the respiratory tract: Lack of data. Not to be expected
- Skin sensitisation: Lack of data. Not to be expected
- Germ cell mutagenicity/Genotoxicity: Lack of data. Not to be expected
- Carcinogenicity: Lack of data. Not to be expected
- Reproductive toxicity: Lack of data. Not to be expected
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Dusts: Irritating to eyes, respiratory system and skin.
- Specific target organ toxicity (repeated exposure): Lack of data.

Other information

Styrene

- Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.
- lung damages
- May be fatal if swallowed and enters airways.
- Causes serious eye irritation. Causes skin irritation.

Acrylonitrile

- Toxic by inhalation, in contact with skin and if swallowed.
- May cause cancer. Suspected of damaging the unborn child.
- Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

Symptoms

- Dust: Can cause skin, eye and respiratory tract irritation.
- The melted product can cause severe burns.
- Thermal treatment, Processing:
- Irritating to eyes, respiratory system and skin.
- In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Method Short-term aquatic toxicity	Results	Reference
Based on available data on the constituents the classification criteria are not met LC(50)mixture = 5.78 mg/l (additivity and summation method, toxicity information available for 92,5 % of the mixture)		
Long-term aquatic toxicity		
Based on available data on the constituents the classification criteria are met and the mixture is therefore classified as Aquatic Chronic 1 NOECmixture = 0.0079 mg/l (additivity and summation method, toxicity information available for 78 % of the mixture)		

Persistence and degradability

Biodegradation Product is not readily biodegradable

Effects in sewage plants In sewage treatment plants it may be separated mechanically

Bioaccumulative potential To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments

Mobility in soil No data available

Results PBT & vPvB assessment According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such

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Other adverse effects	General information: Do not allow to enter into ground-water, surface water or drains.
Additional information	-

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	Dispose in accordance with the current local regulations
Waste codes according to European Waste Catalogue	-
Waste treatment-relevant information	Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM
Sewage disposal-relevant information	-
Other disposal recommendations	-

SECTION 14 TRANSPORT INFORMATION

ADR/RID	
UN number	Not applicable
UN proper shipping name	Proper Shipping Name: NOT REGULATED
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Environmental hazards	Not considered environmentally hazardous based on available data
Special precautions for user	Special Provisions: no data available Hazard identification: no data available
ADNR / ADN	
UN number	Not applicable
UN proper shipping name	Proper Shipping Name: NOT REGULATED
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Environmental hazards	Not considered environmentally hazardous based on available data
Special precautions for user	No data available
IMDG	
UN number	Not applicable
UN proper shipping name	Proper Shipping Name: NOT REGULATED
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Environmental hazards	Not considered environmentally hazardous based on available data
Special precautions for user	EMS Number: Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

ICAO/IATA	
UN number	Not applicable
UN proper shipping name	Proper Shipping Name: NOT REGULATED
Transport hazard class(es)	Not applicable
Packing Group	Not applicable
Environmental hazards	Not considered environmentally hazardous based on available data
Special precautions for user	No data available

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture	Authorization and / or restrictions on use: None
Chemical Safety Assessment	For this substance a chemical safety assessment is not yet required

SECTION 16 OTHER INFORMATION

Indication of changes Version 1: First issue according to Regulations (EC) 1907/2006 (REACH) & 1272/2008 (CLP)

Abbreviations and acronyms

AGS	Ausschuss für Gefahrstoffe	**LoW**	List of Waste
AF	Assessment Factor	**MARPOL**	MARine POLlution
BCF	BioConcentration Factor	**MIE**	Minimum Ignition Energy
CAS	Chemical Abstract Service	**N°EC**	European Commission number
CMR	Carcinogenic, Mutagenic and Reprotoxic	**NFPA**	National Fire Protection Association
CSR	Chemical Safety Report	**NIOSH**	National Institute of Occupational Safety and Health
DFG	German Research Foundation	**NOEC**	No Obseved Effect Concentration
DNEL	Derived No Effect Level	**NOELR**	No Observed Effect Loading Rate
EC	European Commission	**OECD**	Organisation for Economic Co-operation and Development
EC50	Effective Concentration (required to induce a 50% effect)	**OEL**	Occupational Exposure Limi
EEC	European Economic Community	**OSHA**	Occupational Safety and Health Administration
EWC	European Waste Catalogue Code	**PBT**	Persistant Bioaccumulable Toxique
IDLH	Immediately Dangerous to Life or Health	**PNEC**	Previsible Non Effect Concentration
IBC	International Bulk Chemical	**QSAR**	Quantitative Structure-Activity Relationship
Koc	Soil/Water Partition Coefficient	**STOT**	Specific Target Organ Toxicity
Kow	Octanol/Water Partition Coefficient	**TCLo**	Toxic Concentration Low
LC50	Lethal Concentration 50	**TDLo**	Toxic Dose Low
LD50	Lethal Dose 50	**UN**	United Nations
LEL	Lower Explosive Limit	**UVCB**	Unknown or Variable Composition Complex Reaction Products, or Biological Materials
LL100	Lethal Loading	**vPvB**	very Persistent, very Bioaccumulative
LOEC	Lowest Observed Effect Concentration		

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Key literature references and sources for data	http://esis.jrc.ec.europa.eu/ http://echa.europa.eu/ http://gestis-en.itrust.de
Training advice	-
Further information	According to the guidance version 2.0 for monomers and polymers from the European Chemicals Agency dated as of April 2012, the classification of the polymer takes into account the classification of all its constituents, such as unreacted monomers. These constituents in fact should be taken into account for classification of the polymer. This means that the same classification methods as for mixture should be applied to polymer substances. In order to determine a classification for the studies about the water soluble fraction as well as the absorption should be performed on the polymer as such.

END OF SDS