

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.:	Ink-N	Pad Printing Ink	
Print date	29.03.2016	Validity Date 05.09.2015	69999 EN
Version	4.1		Page1 / 8

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

1.1. **Product identifiers:**

Article No. (manufacturer/supplier): Ink - N  
Identification of the substance or mixture:

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

**Relevant identified uses:**

Printing ink/  
-lacquer

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

ITW Trans Tech  
475 N. Gary Avenue  
Carol Stream, IL 60188

Telephone:(630)752-4000

1.4. Emergency Telephone Number: (352)323-3500

**SECTION 2: Hazards identification**

2.1. **Classification of the substance or mixture**

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

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

This mixture is classified as hazardous according to 1999/45/EC.

Xi; R36/38	Irritant	Irritating to eyes and skin.
R43		May cause sensitization by skin contact.
R52-53		Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.

2.2. **Label elements**

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves and eye/face protection.

**contains:**

reaction product:bisphenol-A-  
(epichlorhydrin)

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) No 453/2010**

Print date 29.03.2016  
 Version 4.1

Validity Date 05.09.2015

69999 EN  
 Page 2 / 8

**Supplemental Hazard information (EU)**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Labelling (67/548/EEC or 1999/45/EC)**



Xi Irritant

**Hazard statements**

36/38 Irritating to eyes and skin.  
 43 May cause sensitization by skin contact.  
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Precautionary statements**

24 Avoid contact with skin.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 37 Wear suitable gloves.  
 61 Avoid release to the environment. Refer to special instructions/safety data sheet.

**contains:**

reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

**Special provisions concerning the labelling of certain mixtures**

92 Contains epoxy constituents. May produce an allergic reaction.

2.3. **Other hazards**

**SECTION 3: Composition / information on ingredients**

3.2. **Mixtures**

**Product description / chemical characterization**

**Description** Solvent containing pigment dispersion on resin basis

**Hazardous ingredients**

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
203-933-3 112-07-2	01-2119475112-47-XXXX 2-butoxyethyl acetate	20 - 25
607-038-00-2	Acute Tox. 4 H332 / Acute Tox. 4 H312	
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26-XXXX reaction product: bisphenol-A-(epichlorhydrin) Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic 2 H411	20 - 25
259-370-9 54839-24-6 603-177-00-8	01-2119475116-39-XXXX 2-ethoxy-1-methylethyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	5 - 10

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
203-933-3 112-07-2	01-2119475112-47-XXXX 2-butoxyethyl acetate	20 - 25
607-038-00-2	Xn; R20/21	
500-033-5 25068-38-6 603-074-00-8	01-2119456619-26-XXXX reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Xi; R36/38 / R43 / N; R51-53	20 - 25
259-370-9 54839-24-6 603-177-00-8	01-2119475116-39-XXXX 2-ethoxy-1-methylethyl acetate R10 / R67	5 - 10

**Additional information**

Full text of R-phrases: see section 16.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 3 / 8

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures:

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Extinguishing media which must not be used for safety reasons:

strong water jet

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

Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## SECTION 6: Accidental release measures

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers,

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Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 4 / 8

equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

##### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

##### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

##### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit values:

EC No. CAS No.	Description	type Country:	Limit value		Unit
			STEL (EC)	TWA (EC)	
203-933-3	2-butoxyethyl acetate	WEL	332	133	mg/m <sup>3</sup>
112-07-2			50	20	ppm

##### Additional information

TWA (EC): occupational exposure limit value

STEL (EC): short-term occupational exposure limit value

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

##### Occupational exposure controls

###### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

###### Hand protection

For prolonged or repeated handling the following glove material must be used: butyl rubber

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

###### Eye protection

Wear closely fitting protective glasses in case of splashes.

###### Protective clothing

Recommendation Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

###### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

###### Environmental exposure controls

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 5 / 8

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

#### Appearance:

**Physical state** liquid  
**Colour** as labeled  
**Odour** typical

Safety relevant basis data	Unit	Method	Remark
Flash point:	70 °C	DIN 53213	
Ignition temperature in °C:	315 °C		
Lower explosion limit	1,0 Vol-%		
Upper explosion limit	9,8 Vol-%		
Vapour pressure at 20 °C:	2,30 mbar		
Density at 20 °C:	1,21 g/cm <sup>3</sup>		
Water solubility (g/L)	not soluble		
pH at 20 °C:	-		
Viscosity at 20 °C	> 90 s 4 mm	DIN 53211	
Solvent separation test (%)	< 3 %	ADR/RID	
Solid content (%):	69,10 Wt %		
solvent content:			
Organic solvents:	31 Wt %		
Water:	0 Wt %		

### 9.2. Other information:

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

Toxicological data are not available.

#### skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.

#### Respiratory or skin sensitisation

Toxicological data are not available.

#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

# Safety Data Sheet

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according to Regulation (EU) No 453/2010

Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 6 / 8

## Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

There is no information available on the preparation itself .

## SECTION 12: Ecological information

### overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

### 12.1. Toxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

Toxicological data are not available.

### 12.3. Bioaccumulative potential

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080312 waste ink containing dangerous substances

#### packaging

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

### 14.1. UN number

n.a.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

n.a.

### 14.4. Packing group

n.a.

### 14.5. Environmental hazards

# Safety Data Sheet

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according to Regulation (EU) No 453/2010

Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 7 / 8

Land transport (ADR/RID) n.a.  
Marine pollutant n.a.

## 14.6. Environmental hazards

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

### Additional information

#### Land transport (ADR/RID)

tunnel restriction code -

#### Sea transport (IMDG)

EmS-No. n.a.

## 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

#### EU legislation

##### Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 373,427

VOC-value (in g/L) ASTM D 2369: 373,427

#### National regulations

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### Other regulations, restrictions and prohibition regulations

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

## SECTION 16: Other information

### Full text of classification in section 3:

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Xi; R36/38	Irritant	Irritating to eyes and skin.
R43		May cause sensitization by skin contact.
N; R51-53	Dangerous for the environment	Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.
Xn; R20/21	Harmful	Harmful by inhalation and in contact with skin.
R10		Flammable
R67		Vapours may cause drowsiness and dizziness.

### Additional information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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Print date 29.03.2016  
Version 4.1

Validity Date 05.09.2015

69999 EN  
Page 8 / 8

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**remark**

n.a. = not applicable



**Trusted Partner for Your Product Decorating Needs**

**Trans Tech** 475 North Gary Avenue, Carol Stream, IL 60188

**Tel** +1 (630) 752 4000 **Fax** +1 (630) 752 4467

**Email** sales@itwtranstech.com

[www.itwtranstech.com](http://www.itwtranstech.com) [www.itwids.com](http://www.itwids.com)

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