## SAFETY DATA SHEET

## 1. Identification

Product identifier	Insulcast RTVS Primer 41	Blue	
Other means of identification			
SKU#	IS154R		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	er/Distributor information		
Manufacturer			
Company name	ITW Performance Polymers	3	
Address	130 Commerce Drive		
	Montgomeryville, PA 18936	5	
	United States		
Telephone	Customer Service	215-855-8450	
Website	www.itwperformancepolym	ers.com	
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	CHEMTREC	800-424-9300	
	International	703-527-3887	

#### 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Serious eye damage/eye irritation	Category 2A
	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



#### Danger

Hazard statement

Signal word

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause respiratory irritation. May cause genetic defects. May cause cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Collect spillage.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Supplemental information	91.5% of the mixture consists of component(s) of unknown acute oral toxicity. 91.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 3% of the mixture consists of component(s) of unknown acute inhalation toxicity. 29% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 29% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

#### 3. Composition/information on ingredients

lixtures			
Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), Heavy Straight-run		64741-41-9	60 - 100
Ethyl Silicate		78-10-4	10 - 30
1-butanol		71-36-3	1 - 5
ETHYL SILICATE POLYMER		11099-06-2	1 - 5
Other components below reportable levels			3 - 7

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison	
	center or doctor/physician if you feel unwell.	
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persi	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.	
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.	
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source	

of ignition and flash back. This product is a poor conductor of electricity and can become the chemical electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.

## 6. Accidental release measures

6. Accidental release mea	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits f Components	or Air Contaminants (29 CFR 1910.100 Type	0) Value
1-butanol (CAS 71-36-3)	PEL	300 mg/m3
		100 ppm
Ethyl Silicate (CAS 78-10-4)	PEL	850 mg/m3
		100 ppm
Naphtha (petroleum), Heavy Straight-run (CAS 64741-41-9)	PEL	400 mg/m3
		100 ppm
US. ACGIH Threshold Limit Components	Values Type	Value
1-butanol (CAS 71-36-3)	TWA	20 ppm
Ethyl Silicate (CAS 78-10-4)	TWA	10 ppm
US. NIOSH: Pocket Guide to	Chemical Hazards	
Components	Туре	Value
1-butanol (CAS 71-36-3)	Ceiling	150 mg/m3
		50 ppm
Ethyl Silicate (CAS 78-10-4)	TWA	85 mg/m3
		10 ppm
Naphtha (petroleum), Heavy Straight-run (CAS 64741-41-9)	TWA	400 mg/m3
		100 ppm
ogical limit values	No biological exposure limits noted for t	he ingredient(s).
osure guidelines		
US - California OELs: Skin d	lesignation	
1-butanol (CAS 71-36-3) US - Minnesota Haz Subs: S		absorbed through the skin.
1-butanol (CAS 71-36-3)	3) Skin designation applies.	
US - Tennessee OELs: Skin 1-butanol (CAS 71-36-3)	-	
	Chemical Hazards: Skin designation	
1-butanol (CAS 71-36-3)		absorbed through the skin.
propriate engineering trols	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommend exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.	
-	such as personal protective equipmen	
Eye/face protection	Chemical respirator with organic vapor of	cartridge and full facepiece.
Skin protection Hand protection	Wear appropriate chemical resistant glo	ives.
	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
Other		
Other Respiratory protection	Chemical respirator with organic vapor	

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

· · · · · · · · · · · · · · · · · · ·	
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear. or Blue
Odor	Petroleum-like
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	240 - 278 °F (115.56 - 136.67 °C)
Flash point	84.0 °F (28.9 °C)
Evaporation rate	1.6 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	45 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	6.92 lb/gal
Explosive properties	Not explosive.
Flammability class	Flammable IC estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.83
VOC	75 - 100 %
40 Ctability and reactivity	

#### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological info	ormation	
Information on likely route	es of exposure	
Inhalation	May cause irritation to the respiratory system	Prolonged inhalation may

······	
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and	Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause

physical, chemical and respiratory irritation. toxicological characteristics

#### Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways.	
Components	Species	Test Results
1-butanol (CAS 71-36-3)		
Acute		
Dermal		
LD50	Rabbit	3400 mg/kg
Oral		
LD50	Rat	790 mg/kg
Naphtha (petroleum), Heavy Strai	ght-run (CAS 64741-41-9)	
<u>Acute</u>		
Inhalation LC50	Rat	61 mg/l, 4 Hours
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	on.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitizat	tion.
Germ cell mutagenicity	May cause genetic defects.	
Carcinogenicity	May cause cancer.	
	Evaluation of Carcinogenicity	
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)	
Not listed. US. National Toxicology Press	ogram (NTP) Report on Carcinogens	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive of	or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and enters airways.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	n	
Ecotoxicity	Toxic to aquatic life with long lasting effects.	
Persistence and degradability	No data is available on the degradability of any ingr	edients in the mixture.
Bioaccumulative potential		

Partition coeffi	icient n-octanol / water (log Kow)		
1-butanol		0.88	
Mobility in soil	No data available.		

The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

## 14. Transport information

DOT	
UN number	UN1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	
Label(s)	3
Packing group	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T2, TP1, TP29
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	
Packing group	III
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1263
UN proper shipping name	Paint
Transport hazard class(es)	
Class	3
Subsidiary risk	•
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-E
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	

Visit of the second se	JS federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communics Standard, 29 CFR 1910.1200.         US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration 1-butanol (CAS 71-36-3)       % 1.0         US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance 1-butanol (CAS 71-36-3)       Listed.         Toxic Substances Control Act (TSCA)       TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.         CERCLA Hazardous Substance List (40 CFR 302.4)       1-butanol (CAS 71-36-3)         1-butanol (CAS 71-36-3)       Listed.         SARA 304 Emergency release notification       Not regulated.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)       Not regulated.         Superfund Amendments and Reauthorization Act of 1986 (SARA)       SARA 302 Extremely hazardous substance         Not listed.       SARA 302 Extremely hazardous substance         Not listed.       SARA 311/312 Hazardous         Yes       Chemical         Classified hazard       Flammable (gases, aerosols, liquids, or solids)         Carcinogenicity       Specific target organ toxicity (single or repeated exposure)         Aspiration hazard       Hazard not otherwise classified (HNOC)         SARA 313 (TRI reporting)       CAS number       % by wt.			71-36-3	1 - 5	
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JS federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communica Standard, 29 CFR 1910.1200.         US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration <ul> <li>1-butanol (CAS 71-36-3)</li> <li>10</li> <li>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance             <ul></ul></li></ul>	JS federal regulations       This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communica Standard, 29 CFR 1910.1200.         US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration <ul> <li>1-butanol (CAS 71-36-3)</li> <li>% 1.0</li> <li>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</li></ul>		Serious eye dam Germ cell mutag Carcinogenicity	age or eye irritation enicity		
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15 Pagulatory information	15 Pequilatory information			"Hazardous Chemical" as d	efined by the OSHA Hazard C	
3		15 Regulatory informatio	n			
				"Hazardous Chemical" as d	efined by the OSHA Hazard C	Communica
ATA; IMDG		3				
ATA; IMDG	3					
ATA; IMDG	3	FLAMMABLE LIQUID				
FLAMMABLE LIQUID 3 ATA; IMDG	FLAMMABLE LIQUID					

Not regulated.

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#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

1-butanol (CAS 71-36-3)

Low priority

#### US state regulations

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Naphtha (petroleum), Heavy Straight-run (CAS 64741-41-9)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

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Issue date	08-04-2014
Revision date	10-31-2021
Version #	05
HMIS® ratings	Health: 3 Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 3 Flammability: 3 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.