



Health, Safety & Environment fact sheet

Yara Kokkola SOP and Feed Phosphate, 2009



Location: Kokkola, Finland

Number of employees: 64

Annual production capacity (ton)

Potassium sulphate: 200,000

Feed phosphates: 250,000

Certification: ISO 9001, ISO 14001, OHSAS 18001

Other systems: GMP+B2 (in Feed Phosphate plant)

Health and safety indicators	
Employee sickness rate (%)	6.6
LTI rate (combined)	7.8
TRI rate for own employees	11.2
TRI rate (combined)	7.8
Major accidents during the year	0

Plant energy and water consumption	
Heavy Oil (TJ)	399
Electricity (GWh)	18
District heating (TJ)	30

Emissions and waste	Amount	% of permit	Possible impacts
Kokkola SOP			
SO ₂ to air	8.5 t	48	Regional acid precipitation and local haze formation
HC ₁ to air	17 t	113*	Regional acid precipitation and local haze formation
Dioxins to air (grams)	0.0114 g	4	Toxic haze
HCB to air	20 kg	200*	Toxic haze
Kokkola Feed Phosphate			
SO ₂ to air	15 t	52	Regional acid precipitation and local haze formation
F to air	0.3 t	54	Regional acid precipitation and local haze formation
P to water	1,744 t	58	Eutrophication (excess nutrients in waterways and algae blooming)
Hazardous waste			
Solid oil waste	0.3 t	-	
Aerosols	0.04 t	-	
Non-hazardous waste			
On-site land filling	492 t	-	
Off-site land filling	37 t	-	
Off-site recycling	135 t	-	
Off-site incineration	31 t	-	

* From target level

Actions for further improvements

- Conformance with Yara standards
- Full implementation of behavior-based safety program in 2010
- SIL analysis and implementation of actions for ammonia storage

Community activities

- Support of Chemistry Professorship of local University
- Scholarship funding for local polytechnic and vocational school
- Sponsoring of local junior football team and orienteering association
- Sponsoring of Finnish athletic federation

LTI (Lost-Time Injury) rate: Number of injuries with absence from work in excess of day of injury, per million hours worked

TRI (Total Recordable Injury) rate: Number of injuries with absence from work + temporary lighter work tasks + medical treatment, per million hours worked

Major accident: Accident leading to fatality or serious bodily harm, property damage or loss of production in excess of € x million, significant environmental incident

"Ton" in this document refers to metric ton, equal to 1000 kilograms.